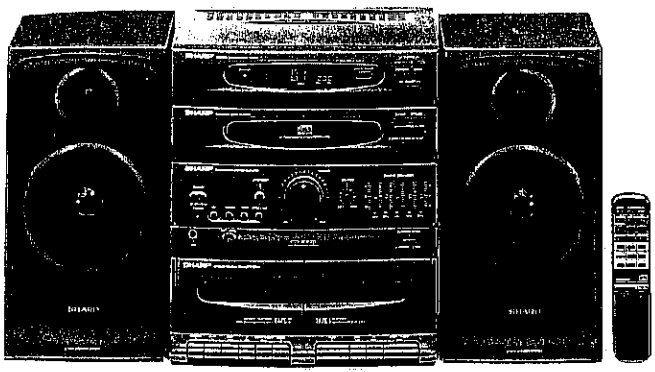
SHARP SERVICE MANUAL

SX3B1CD-S370X



CD-S370X(BK)
CP-S370X(BK)

COMPACT disc DIGITAL AUDIO

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-S370X

Mini component system

General

ıwer source:	AC 110, 127, 220, 230-240 V, 50/60 Hz
ıwer consumption:	170 W
mensions:	Width; 270 mm (10-5/8")
	Height; 316 mm (12-7/16")
	Depth; 328 mm (12-15/16")
eight:	6.2 kg (13.7 lbs.)

Amplifier section

ıtput power:	PMPO; 400 W (total)
	MPO; 100 W (50 W + 50 W) (10 % T.H.D.)
	RMS; 50 W (25 W + 25 W) (10 % T.H.D.)
ıut terminals:	VIDEO/AUX; 245 mV/47 kohms
	Mixing microphone; 1mV/4.7 kohms
ıtput terminals:	Speakers; 8 ohms
	Headphones; 16 - 50 ohms (recommended; 32 ohms)

Compact disc player section

pe:	Compact disc player
gnal readout:	Non-contact, 3-beam semi-conductor laser pickup
tational speed:	200 - 500 rpm CLV, Approx.
ror correction:	CIRC (Cross Interleave Reed-Solomon Code)
coder:	16 bit linear
ter:	4-times oversampling digital filter
equency response:	20 - 20,000 Hz
gnal/noise ratio:	95 dB (1 kHz)
namic range:	90 dB (1 kHz)
ow and flutter:	Unmeasurable (less than 0.001% W. peak)

● Tuner section

Frequency range:	FM; 88 - 108 MHz (50/100 kHz span)
	AM; 531 - 1,602 kHz

● Cassette deck section

Frequency response:	50 - 14,000 Hz (Normal tape)
Motor:	DC motor x 1
Signal/noise ratio:	55 dB (TAPE 1, playback)
	50 dB (TAPE 2, recording/playback)
Wow and flutter:	0.15 % (WRMS)
Bias and erasure system:	AC
Tape speed:	4.76 cm/sec (1-7/8 ips.)
Heads:	TAPE-1: Playback x 1
	TAPE-2: Record/playback x 1
	Erase x 1

CP-S370X

■ Speaker system

Type:	2-way bass-reflex type
Speakers:	12 cm (4-3/4") woofer
	5 cm (2") tweeter
Rated power:	25 W
Maximum power handling capacity:	50 W
Impedance:	8 ohms
Dimensions:	Width; 158 mm (6-1/6")
	Height; 316 mm (12-7/16")
	Depth; 193 mm (7-5/8")
Weight:	2.5 kg (5.5 lbs.)/each

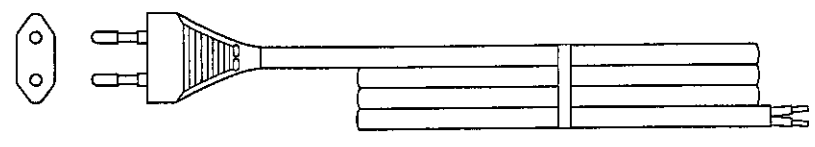
Specifications for this model are subject to change without prior notice.

VOLTAGE SELECTION

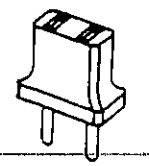
efore operating the unit on mains, check the preset voltage. If e voltage is different from your local voltage, adjust the voltage s follows: Slide the AC power supply socket cover by slightly osing the screw to the visible indication of the side of your local oltage.

AC POWER SUPPLY CORD AND PLUG

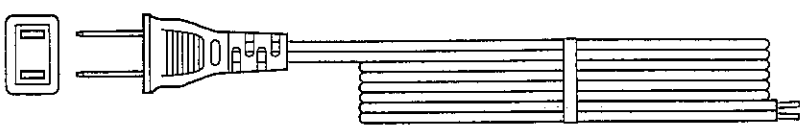
92LCORD-1318B



92LPLUG027



92LCORD-1393A



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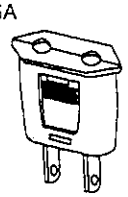


Figure 2 AC POWER SUPPLY CORD AND PLUG

NAMES OF PARTS

CD-S370X

■ CD/Tuner display section

1. Play Indicator: ▶
2. Extra Bass Indicator: X-BASS
3. FM Stereo Indicator: ∞
4. Memory Indicator
5. FM Stereo Mode Indicator
6. Auto Scan Indicator
7. Random Indicator
8. Pause Indicator: ❚❚
9. Repeat Indicator: ⊂
10. Preset Channel Indicator
11. Track Number/Band Indicator
12. Minutes and Seconds Indicator/Station Frequency

■ Tuner section

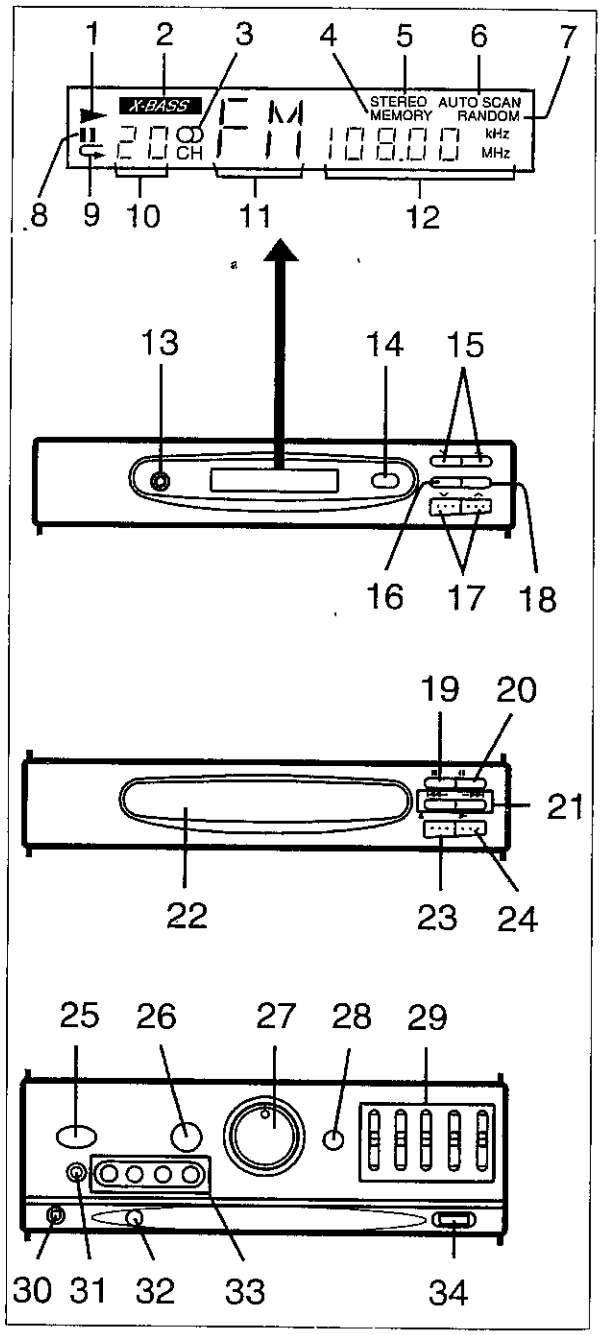
13. Stand-By Indicator
14. Remote Control Sensor
15. Tuning Up/Down Buttons: ∨ / ∧
16. Memory Button
17. Preset Channel Up/Down Buttons: ∨ / ∧
18. Band Selector Button

■ CD section

19. Stop Button: ■
20. Pause Button: ❚❚
21. Track Up/Down Buttons: ⏮ / ⏭
22. Disc Tray
23. Open/Close Button: ⏏
24. Play Button: ▶

■ Amplifier section

25. Power Switch
26. Extra Bass Switch: X-BASS
27. Volume Control
28. Balance Control
29. Graphic Equalizer Controls
30. Microphone Socket
31. Headphones Socket
32. Microphone Level Control
33. Function Selector Buttons
34. Dubbing Speed Switch



■ Stereo double cassette deck section

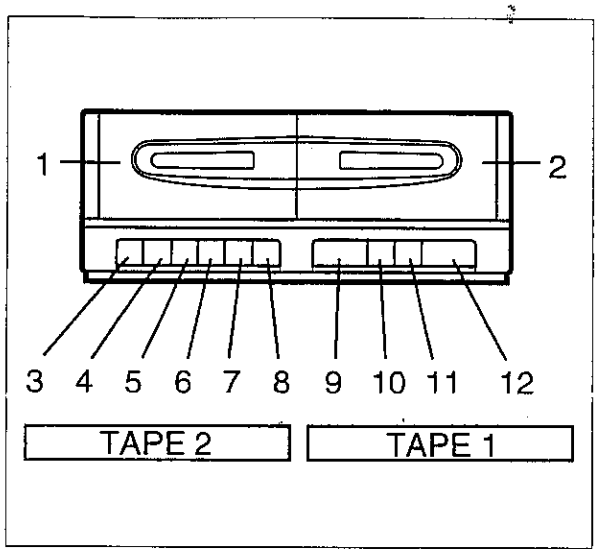
1. TAPE 2) Cassette Compartment
2. TAPE 1) Cassette Compartment

TAPE 2

3. Record Button: ●
4. Play Button: ▶
5. Rewind Button: ◀◀
6. Fast Forward Button: ▶▶
7. Stop/Eject Button: ■/⏏
8. Pause Button: ❚❚

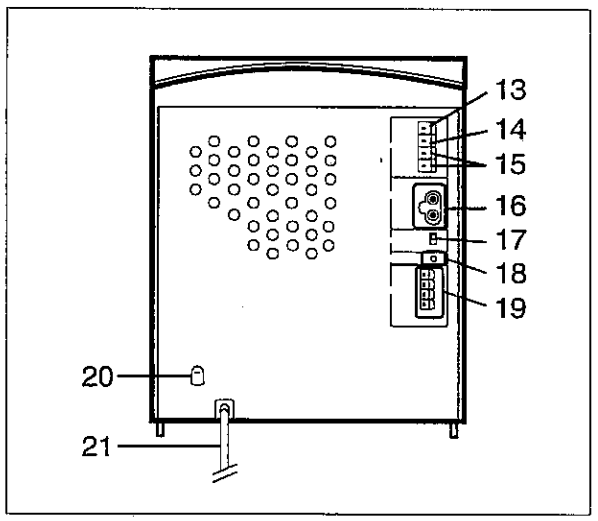
TAPE 1

9. Play Button: ▶
10. Rewind Button: ◀◀
11. Fast Forward Button: ▶▶
12. Stop/Eject Button: ■/⏏



■ Rear panel

13. AM Aerial Terminal
14. Aerial Earth Terminal
15. FM Aerial Terminals
16. Video/Auxiliary (Audio Signal) Input Sockets
17. Span Selector Switch
18. Reset Button
19. Speaker Terminals
20. AC Voltage Selector
21. AC Power Lead



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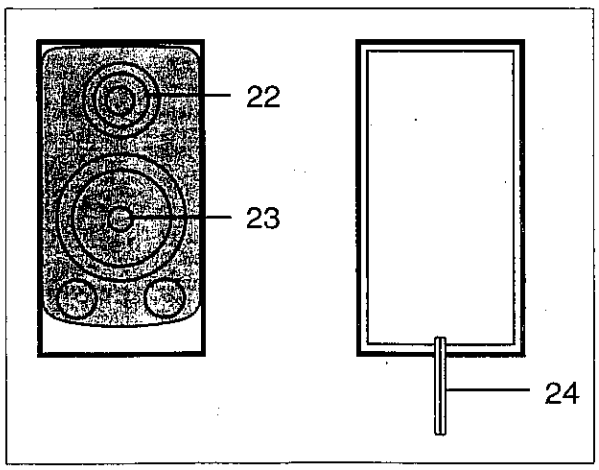
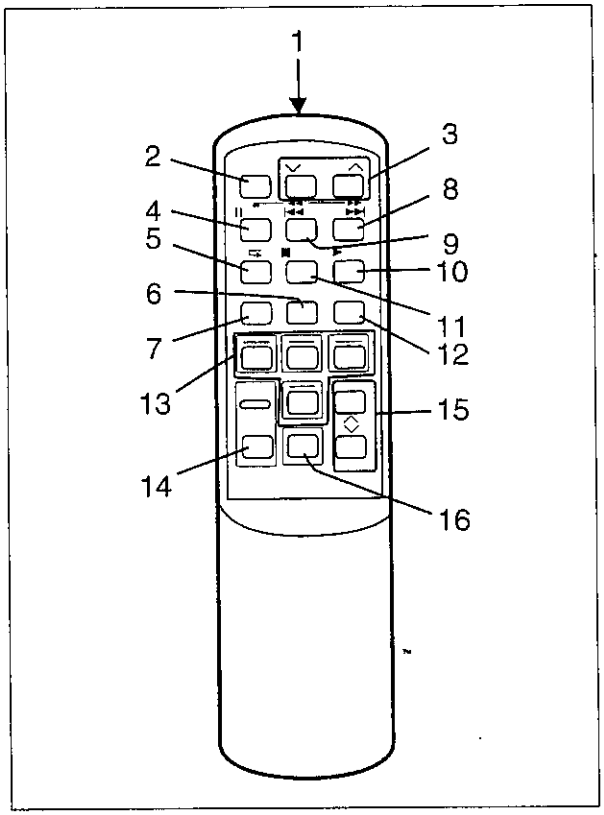
■ Speaker section

22. Tweeter
23. Woofer
24. Speaker Wire



■ Names of controls



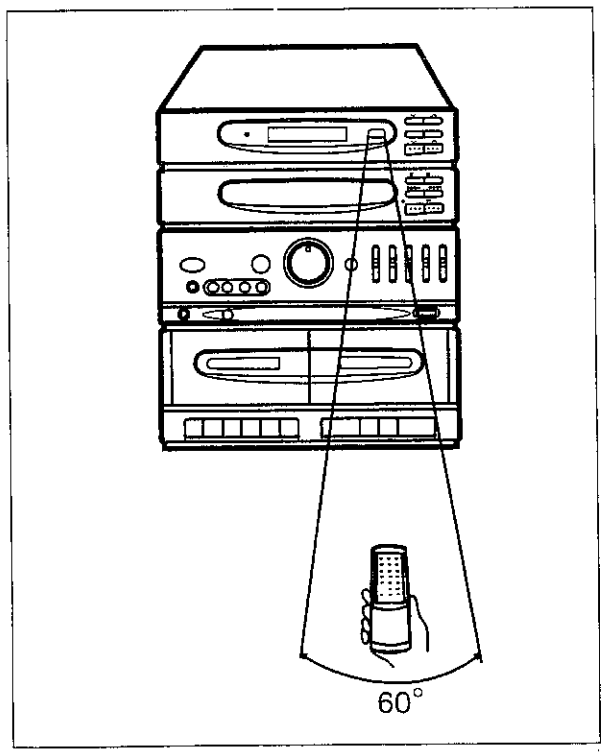
1. Remote Control Transmitter LED

● Tuner control buttons
2. Band Selector Button
3. Preset Channel Up/Down Buttons: ∨ / ∧

● CD control buttons
4. Pause Button: ❚❚
5. Repeat Button: ⊂
6. Clear Button
7. Random Button
8. Track Up/Cue Button: ▶▶| / ▶▶
9. Track Down/Review Button: |◀◀ / ◀◀
10. Play Button: ▶
11. Stop Button: ■
12. Memory Button

● System Control Buttons
13. Function Selector Buttons
14. Power Button
15. Volume Up/Down Buttons: ∨ / ∧
16. Extra Bass Button : X-BASS

■ Proper use of the remote control



Aim the remote control at the remote control sensor within 60°, with no obstacles, and operate as shown.

Notes concerning use:

- Replace the batteries if control distance decreases or operation becomes erratic.
- Periodically clean the transmitter LED on the remote control and the sensor on the main unit with a soft cloth.
- Exposing the sensor on the main unit to strong light can interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, excessive heat, shock, and vibrations.
- The remote control's usable range is between 0.2 m (8") and 6 m (20') away from the sensor.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

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STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x6	6-1
2	Side Panel	1. Screw ..... (B1) x8	6-1
3	Back Board	1. Screw ..... (C1) x8	6-1
4	CD Servo PWB	1. Socket ..... (D1) x6 2. Screw ..... (D2) x4	6-2
5	Disc Holder	1. Turn the loading motor pulley in the direction of the arrow with a Phillips or slotted screwdriver and extract the disc holder. 2. Hook ..... (E1) x2	6-2
6	CD Block	1. Screw ..... (F1) x4	6-2
7	Main PWB	1. Screw ..... (G1) x5 2. Socket ..... (G2) x4	7-1 7-1,2
8	Mic PWB	1. Screw ..... (H1) x2 2. Bracket ..... (H2) x1	7-2
9	Deck PWB	1. Socket ..... (J1) x4 2. Screw ..... (J2) x4	7-2
10	Front Panel	1. Screw ..... (K1) x3	7-2
11	Display PWB	1. Screw ..... (L1) x14 2. Hook ..... (L2) x1 3. Knob ..... (L3) x1 4. Nut ..... (L4) x1 5. Washer ..... (L5) x1	7-3
12	Tape Mechanism	1. Open the cassette holder. 2. Screw ..... (M1) x8	7-3
13	CD Mechanism	1. Screw ..... (N1) x3	7-4
14	Power PWB	1. Screw ..... (P1) x4	7-1

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STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer/Tweeter	1. Front Panel ..... (A1) x1 2. Screw ..... (A2) x6	7-5 7-6

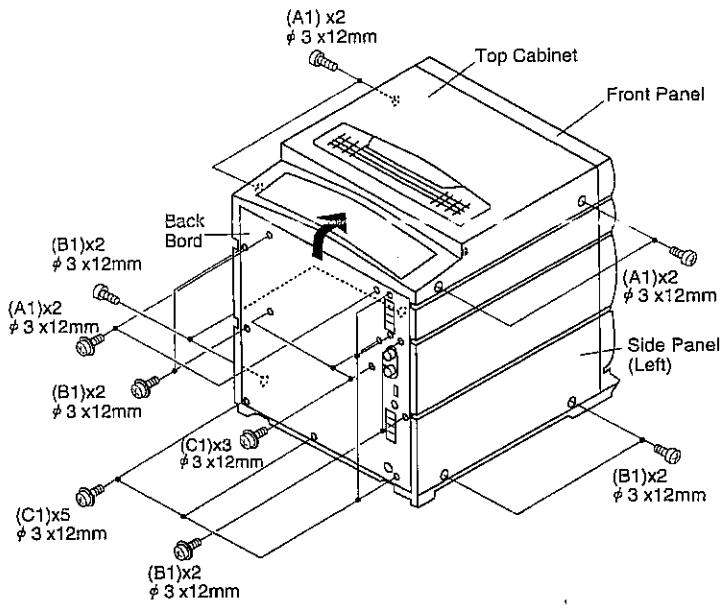


Figure 6-1

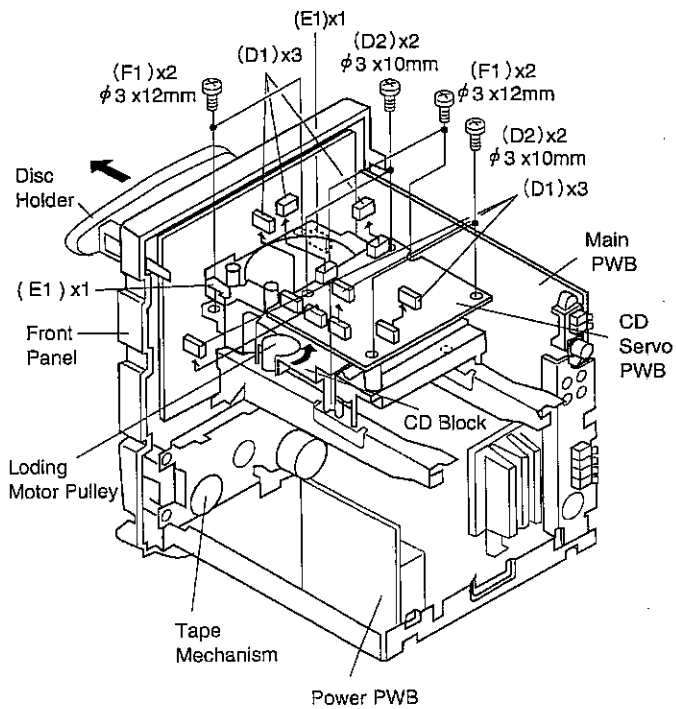


Figure 6-2

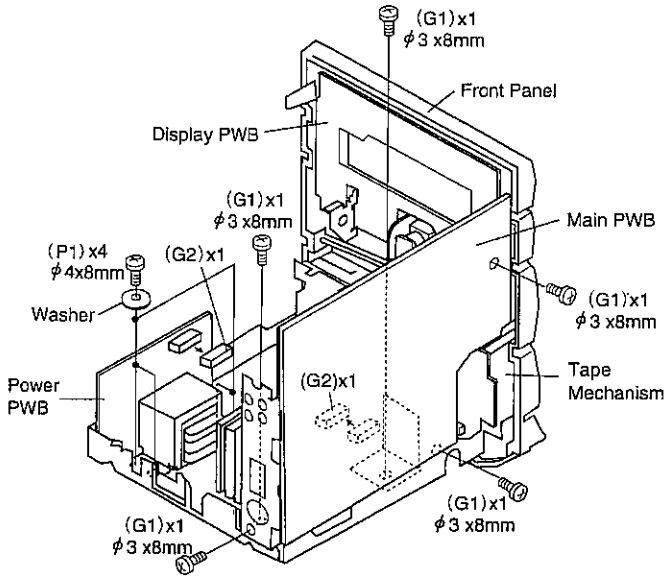


Figure 7-1

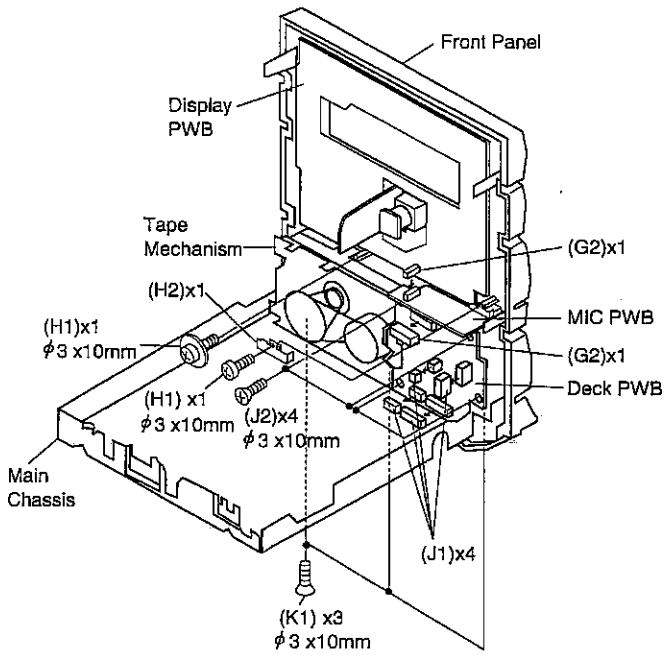


Figure 7-2

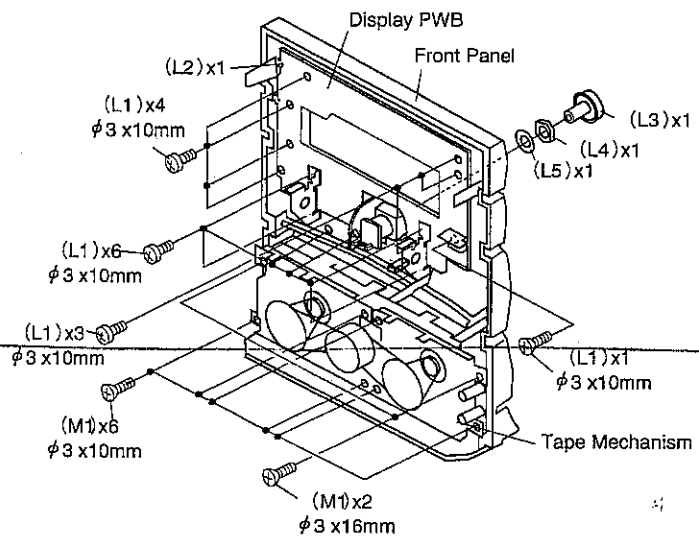


Figure 7-3

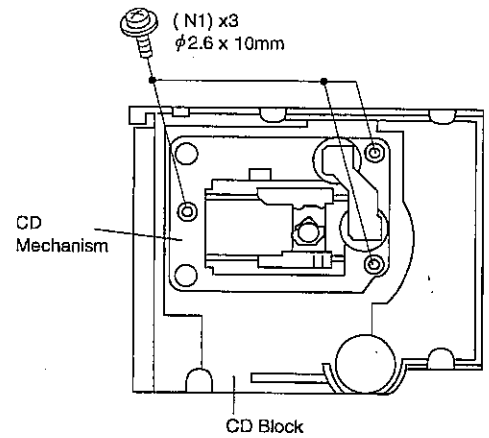


Figure 7-4

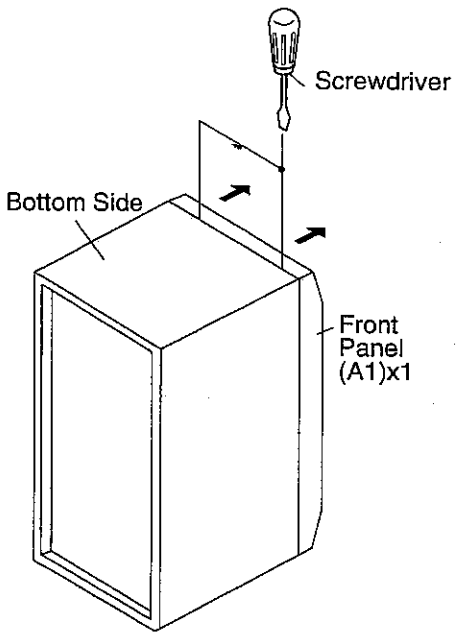


Figure 7-5

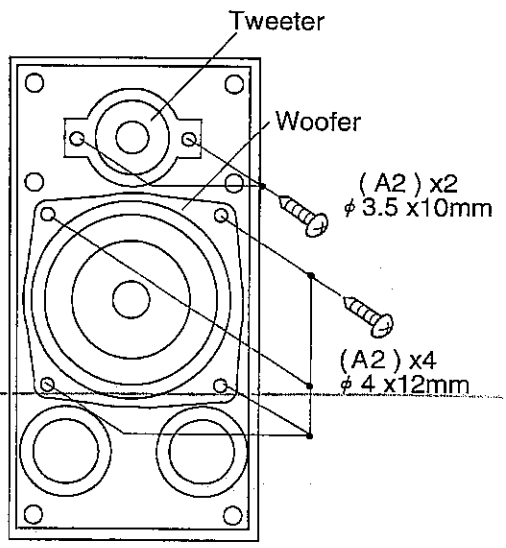


Figure 7-6

REMOVING AND REINSTALLING THE MAIN PARTS

APE MECHANISM SECTION

rform steps 1, 2, 3, 4, 5, 6, 7 and 12 of the disassembly method remove the tape mechanism.

ow to remove the record / playback and erase eads (TAPE 2) (See Fig. 8-1.)

Carefully bend the record/playback head pawls (A1) x 2 pcs., in the direction of the arrow Ⓐ, and remove the record/playback head upwards.
Remove the screws (B2) x 2 pcs., to remove the erase head.

ow to remove the playback head (TAPE 1) ee Fig. 8-2.)

Carefully bend the playback head pawls (C1) x 2 pcs., in the direction of the arrow Ⓒ, and remove the playback head upwards.

ow to remove the pinch roller (TAPE 1/2) ee Fig. 8-3.)

Carefully bend the pinch roller pawl in the direction of the arrow Ⓓ, and remove the pinch roller (D1) x 1 pc., upwards.

ow to remove the belt (TAPE 2) (See Fig. 8-4.)

Remove the main belt (E1) x 1 pc., from the motor side.
Remove the FF/REW belt (E2) x 1 pc.

ow to remove the belt (TAPE 1) (See Fig. 8-4.)

Remove the tape 2 main belt (E1) x 1 pc., from the motor side.
Remove the tape 1 main belt (F1) x 1 pc., from the motor side.
Remove the FF/REW belt (F2) x 1 pc.

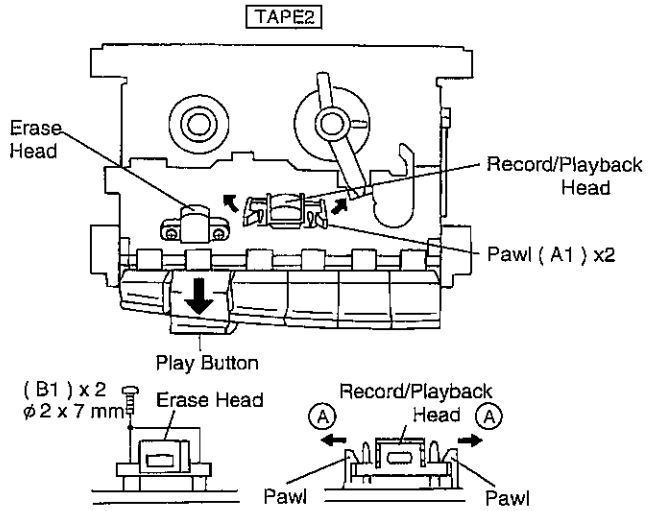


Figure 8-1

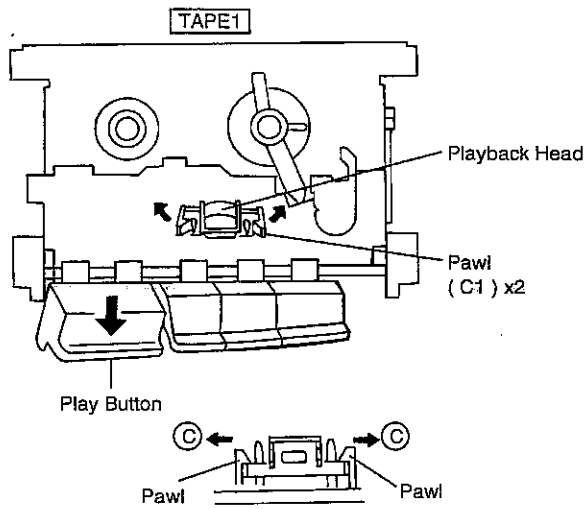


Figure 8-2

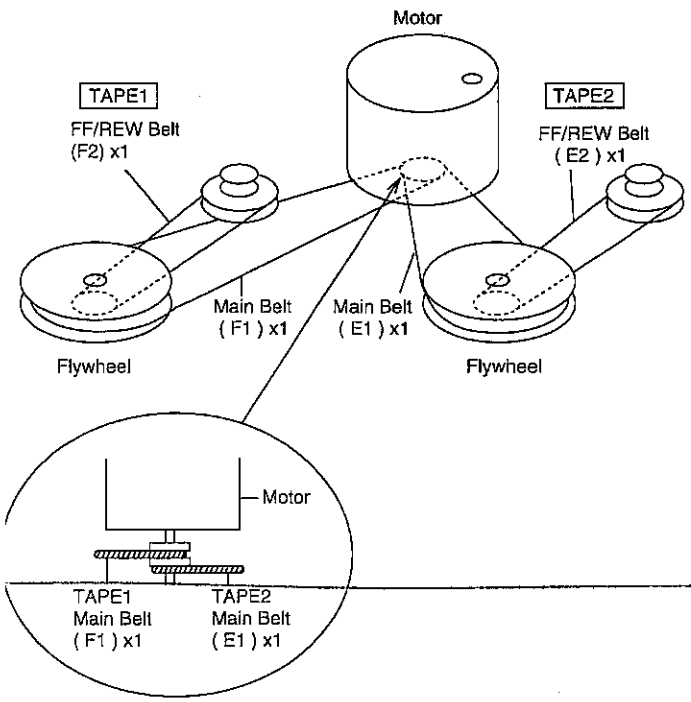


Figure 8-4

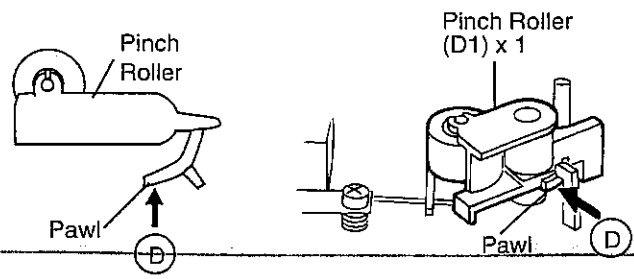


Figure 8-3

How to remove the motor (See Figs. 9-1 and 9-2.)

1. Remove the belt.
2. Remove the screws (G1) x 4 pcs., to remove the motor fixtire.
3. Remove the screws (G2) x 2 pcs., to remove the motor.

Note:
When mounting the motor, pay attention to the motor mounting angle.

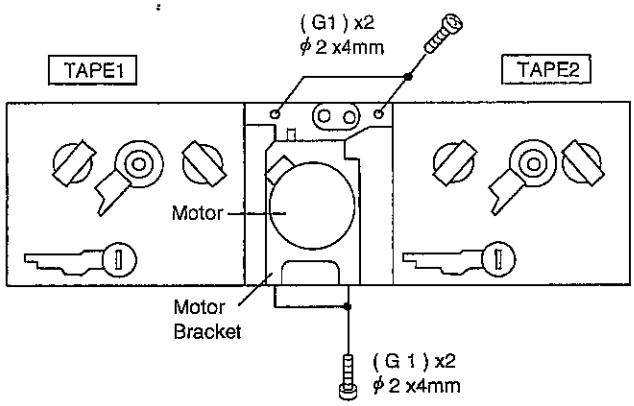


Figure 9-1

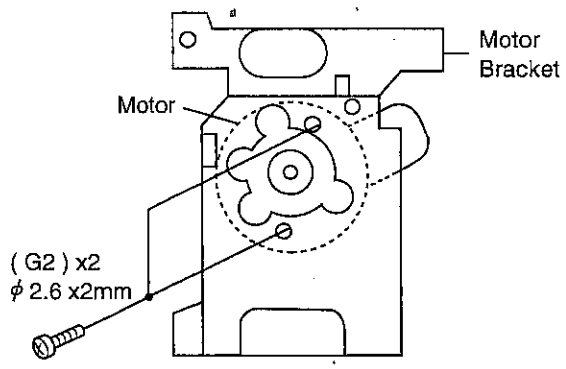


Figure 9-2

CD MECHANISM SECTION

Perform steps 1, 2, 3, 4, 5, 6 and 13 of the disassembly method to remove the CD mechanism.

Removing the pickup (See Fig. 9-3.)

1. Remove screws (①) x 4 pcs., and remove shafts (②) x2 pcs.

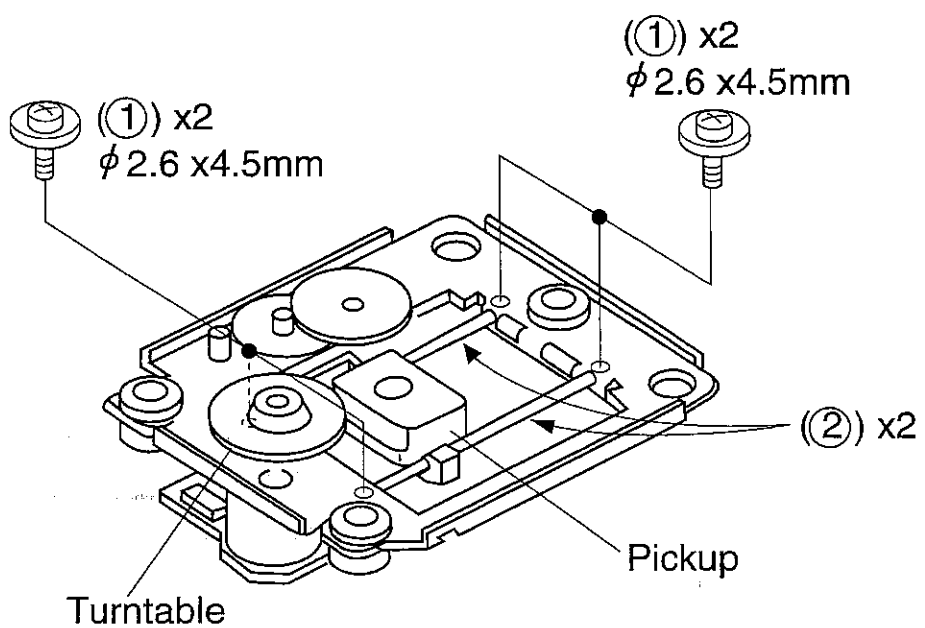


Figure 9-3

ADJUSTMENT

ECHANISM SECTION

Driving Force Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
LAY: TW-2412	Over 50 g	Over 100 g

Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
ay: TW-2111	25 to 65 g.cm	30 to 60 g.cm
ıst Forward: TW-2231	55 to 140 g.cm	80 to 135 g.cm
ewind: TW-2231	55 to 140 g.cm	80 to 135 g.cm

Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
ormal peed	MTT-111	VR101	3,000 ± 60 Hz	Speaker Terminal (Load resistance: 8 ohms)

APE SECTION

Position of each switch or control	
olume	Max
raphic Equalizer	Center
unction	Tape
ape selector	Nomal
ubbing speed	Normal
pan selector	100/10 kHz

Playback Amplifier Sensitivity Check

Test Tape	Specified Value	Instrument Connection
ITT-118	4.3 V ± 3 dB	Speaker terminal (Load resistance: 8ohms)

TUNER SECTION

fL: Low-range frequency
fH: High-range frequency

- **AM IF/RF**

Signal generator: 400 Hz, 30%, AM modulated
Span selector switch: 9 kHz

Test Stage	Frequency	Frequency Display	Specified Value/ Adjusting Point	Instrument Connection
IF	450 kHz	1,620 kHz	T209	*1
AM band coverage	–	531 kHz	T207(fL): 1.1 V ± 0.05 V	*2
AM tracking	603 kHz	603 kHz	T203(fL)	*1
	1,404 kHz	1,404 kHz	TC203(fH)	

*1. Input: Antenna
Output: Pin 15 of IC202

*2. Input: Antenna
Output: TP203

FM

Notes:

1. Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2. The parts in the FM front end section are prepared a complete unit, so you can't obtain each part individually.

- **FM Detection/Distortion**

Signal generator: 1 kHz, 40 kHz dev, FM modulated

Frequency	Frequency Display	Adjusting Point	Instrument Connection
98.00 MHz (60 dB)	98.00 MHz	T210*	Input: Antenna Output: TP201

*Adjust the T210 so that voltmeter reads 0 ± 50 mV.

- **FM Auto Stop Level**

Signal generator: 1 kHz, 40 kHz dev, FM modulated

Frequency	Frequency Display	Adjusting Point	Instrument Connection
98.00 MHz (27 dB)	98.00 MHz	VR202*	Input: Antenna Output: Speaker terminal

*Adjust so that an output signal appears.

- **VCO Frequency**

Frequency	Specified Value	Adjusting Point	Instrument Connection
98.00 MHz (60 dB)	38 kHz ± 100 Hz	VR203	Input: Antenna Output: Pin 6 of IC203

*Adjust for 38 kHz ± 100 Hz

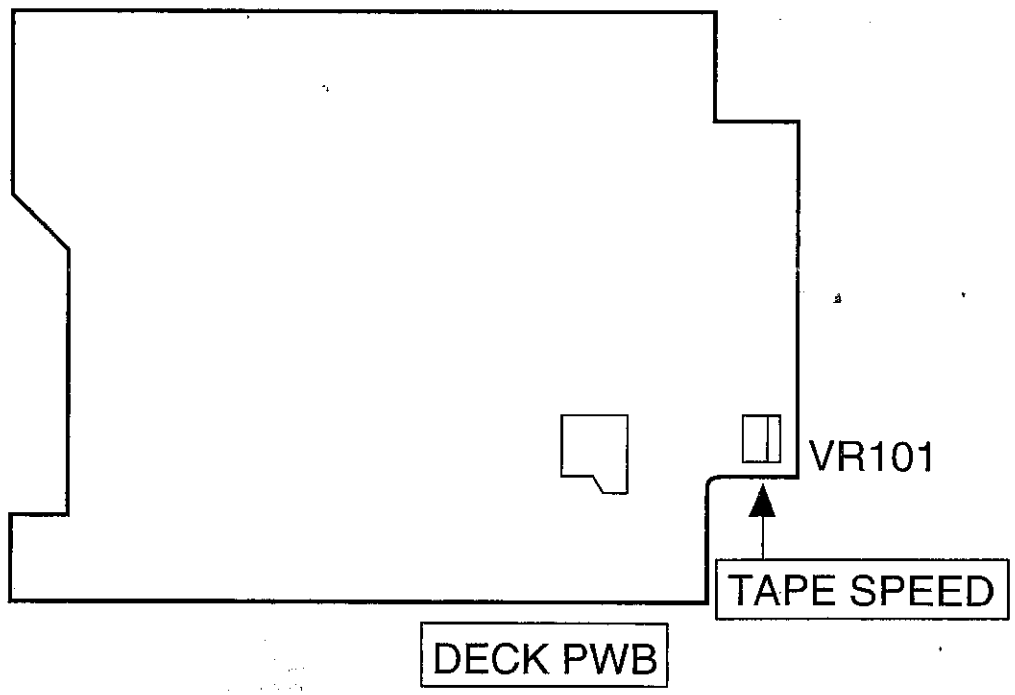


Figure 11-1 ADJUSTMENT POINT

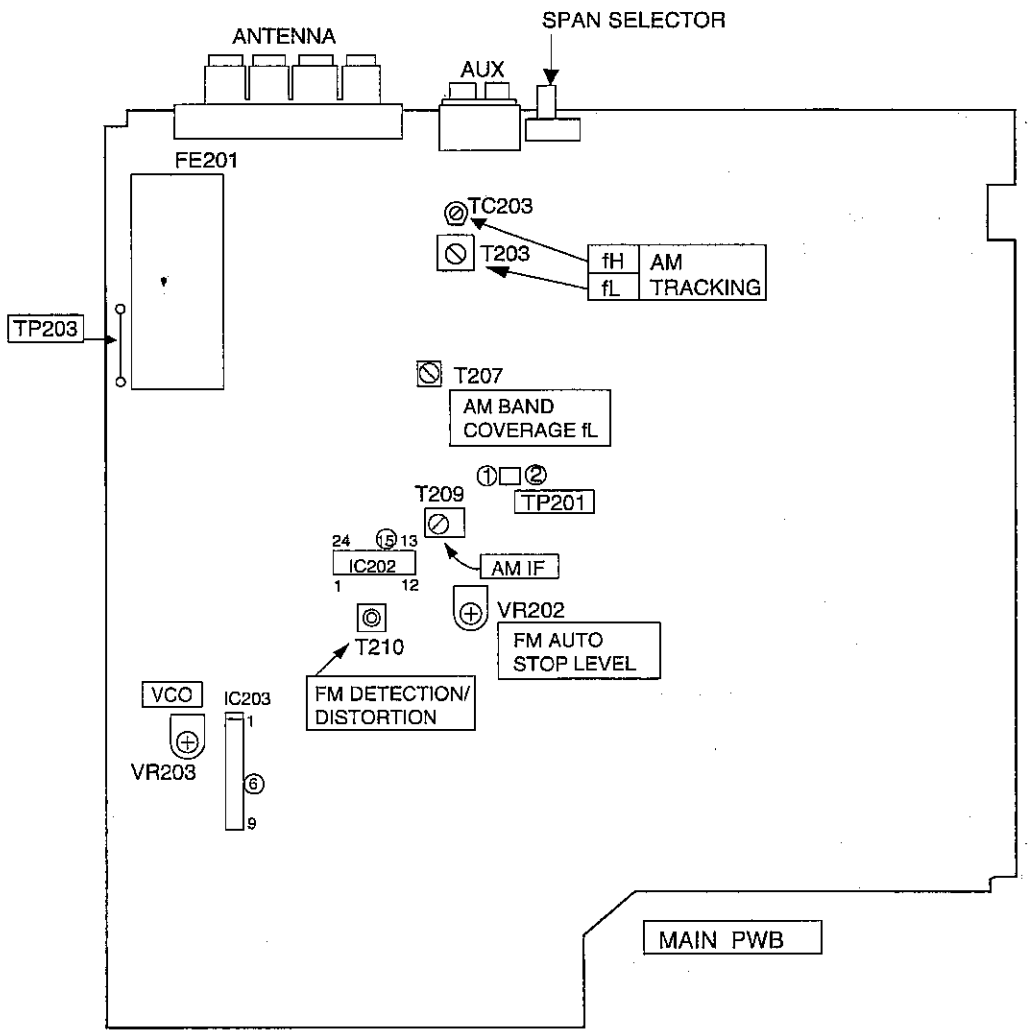


Figure 11-2 ADJUSTMENT POINTS

D SECTION

rack skipping and/or no TOC(Table Of Contents) may be used by a build up of dust other foreign metter on the laser ckup lans. Before attempting any adjustment make certain that e lens is clean. If not, clean it as mentioned below."

rn the power off.
ently clean the lens with a lens cleaning tissue and a small nount of isopropyl alcohol.
o not touch the lens with the bare hand.

. Preparation for Adjustment

1. Test mode setting
   With the APSS ▶▶| button and STOP ■ button pressed, turn on the power switch.
2. Each test points should be previously connected from under the CD servo PWB.

. VCO Free-Run Frequency

Adjustment Point	Specified Value	Instrument Connection
When lower than he specified: *1 When higher than he specified: *2	4,300 kHz + 150 kHz - 200 kHz	TP6(VCO) and D.GND.

: Cut the R37 (39 kohms).
: Cut the R38 (33 kohms).

. Servo Unit

llow the procedu re stated below.

Tracking Error Balance

Adjusting Point	Adjusting Method	Instrument Connection
VR1	*1	TP9 (T.ER) and GND.

: When the play mode APSS |◀◀ button is pressed, adjustment of tracking error balance. (Tracking server off) Adjust so as to obtain symmetric waveform (Figure 12-2.) when DC is 0 V. After adjustment APSS |◀◀ button is pressed. (Tracking servo ON)

Focus Gain

Adjusting Point	Adjusting Method	Instrument Connection
VR3	Adjust so that the voltage of CH-1 is equal to that of CH-2. *2	TP2 (FE), TP3 (FP) and GND.

: Apply sine wave (Oscillation Frequency: 1.0 kHz 0.5 Vrms) as shown in Figure 12-3.

Tracking Gain

Adjusting Point	Adjusting Method	Instrument Connection
VR2	Adjust so that the voltage of CH-1 is equal to that of CH-2. *3	TP4 (TE), TP5 (TP) and GND.

: Apply sine wave (Oscillation Frequency: 1.0 kHz 0.5 Vrms) as shown in Figure 13-1.

Check HF Output

Adjusting Point	Adjusting Method	Instrument Connection
—	—	TP1 (HF) and A.GND.

lake sure that waveform is as shown in Figure 13-2.

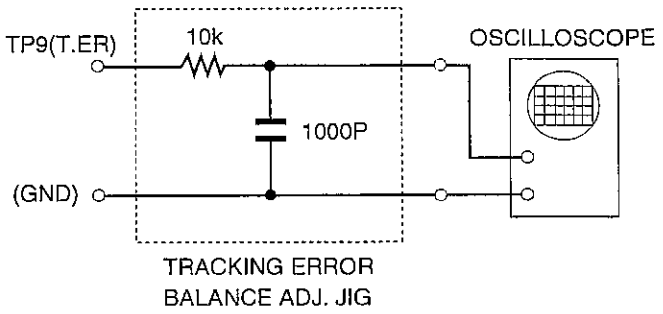


Figure 12-1

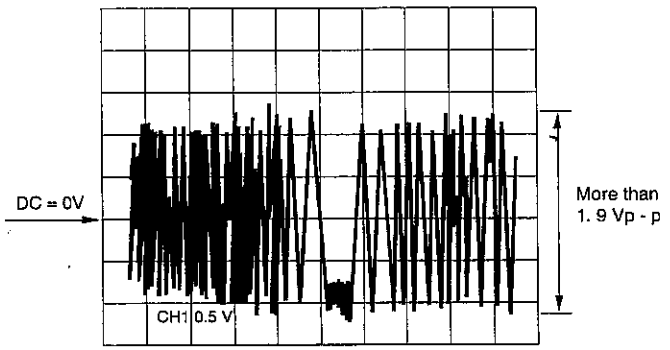


Figure 12-2

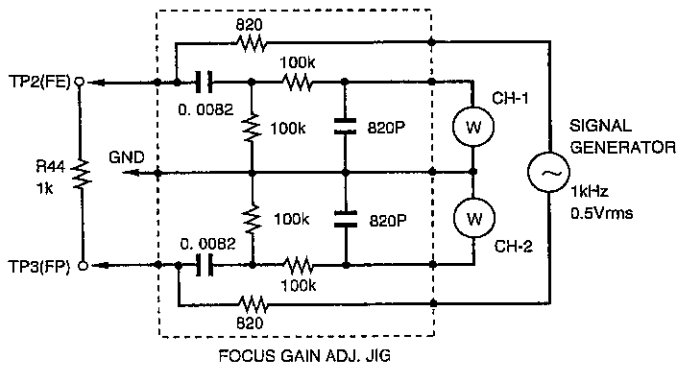


Figure 12-3

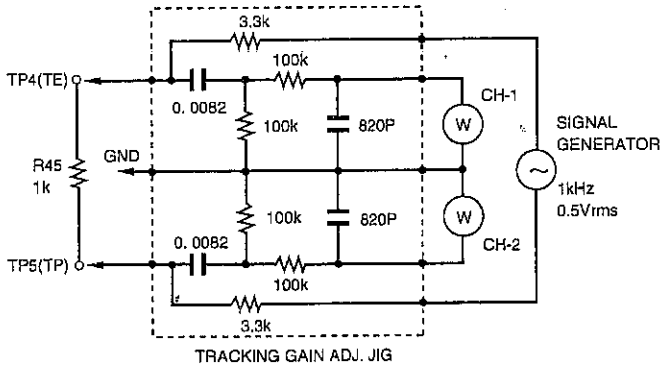


Figure 13-1

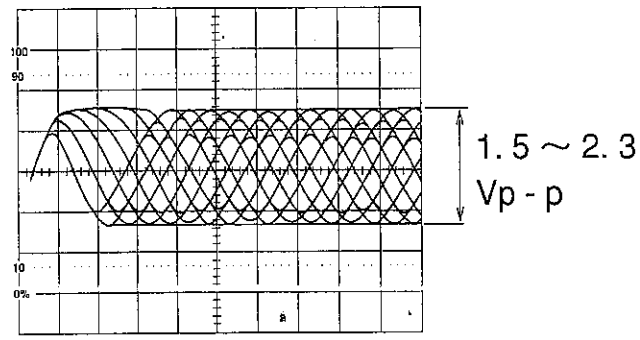
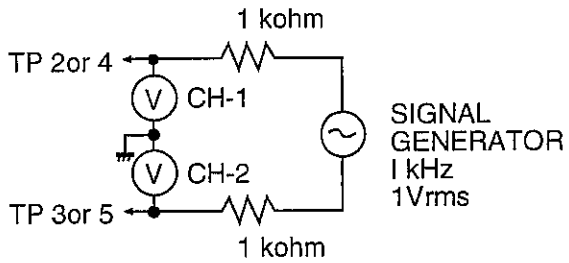
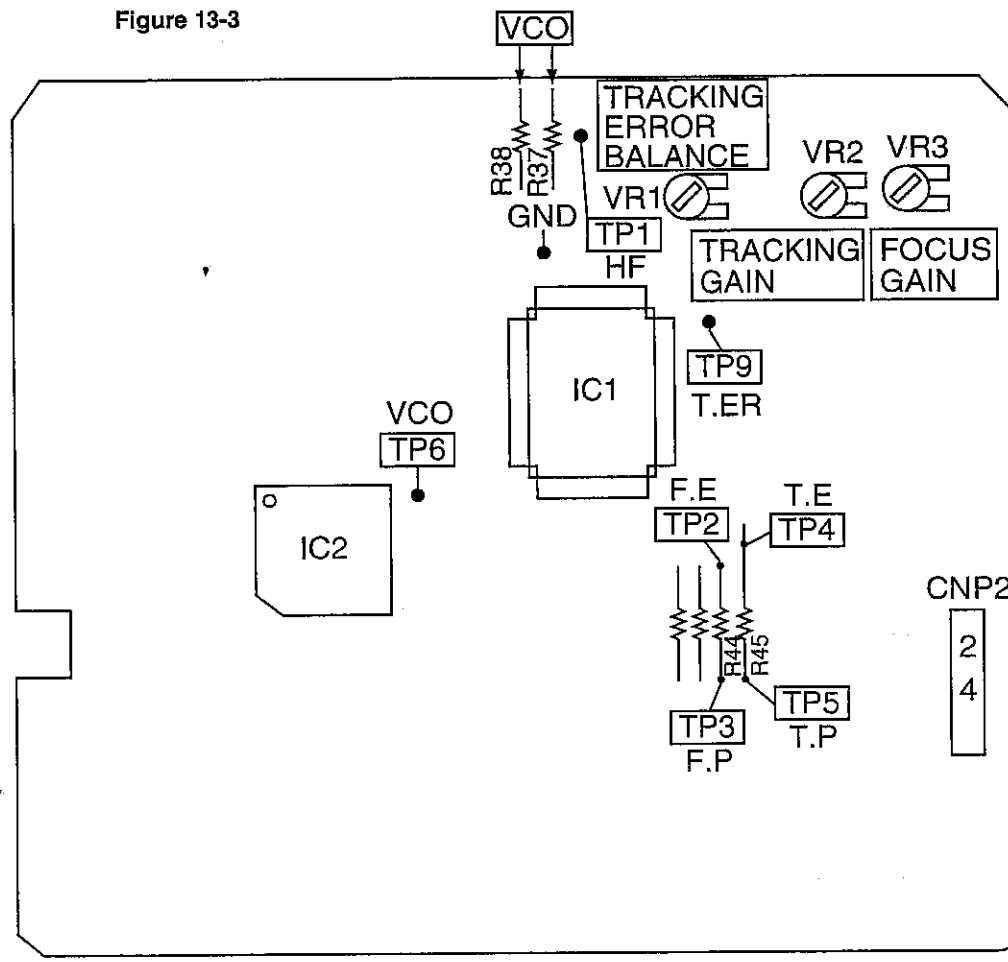


Figure 13-2



The jig (BPF) are recommended to reduce high frequency nois during alignment. As an alternative, two 1 kohm resistors can be used to achieve the same results.

Figure 13-3



CD SERVO PWB (TOP VIEW)

Figure 13-4 ADJUSTMENT POINTS

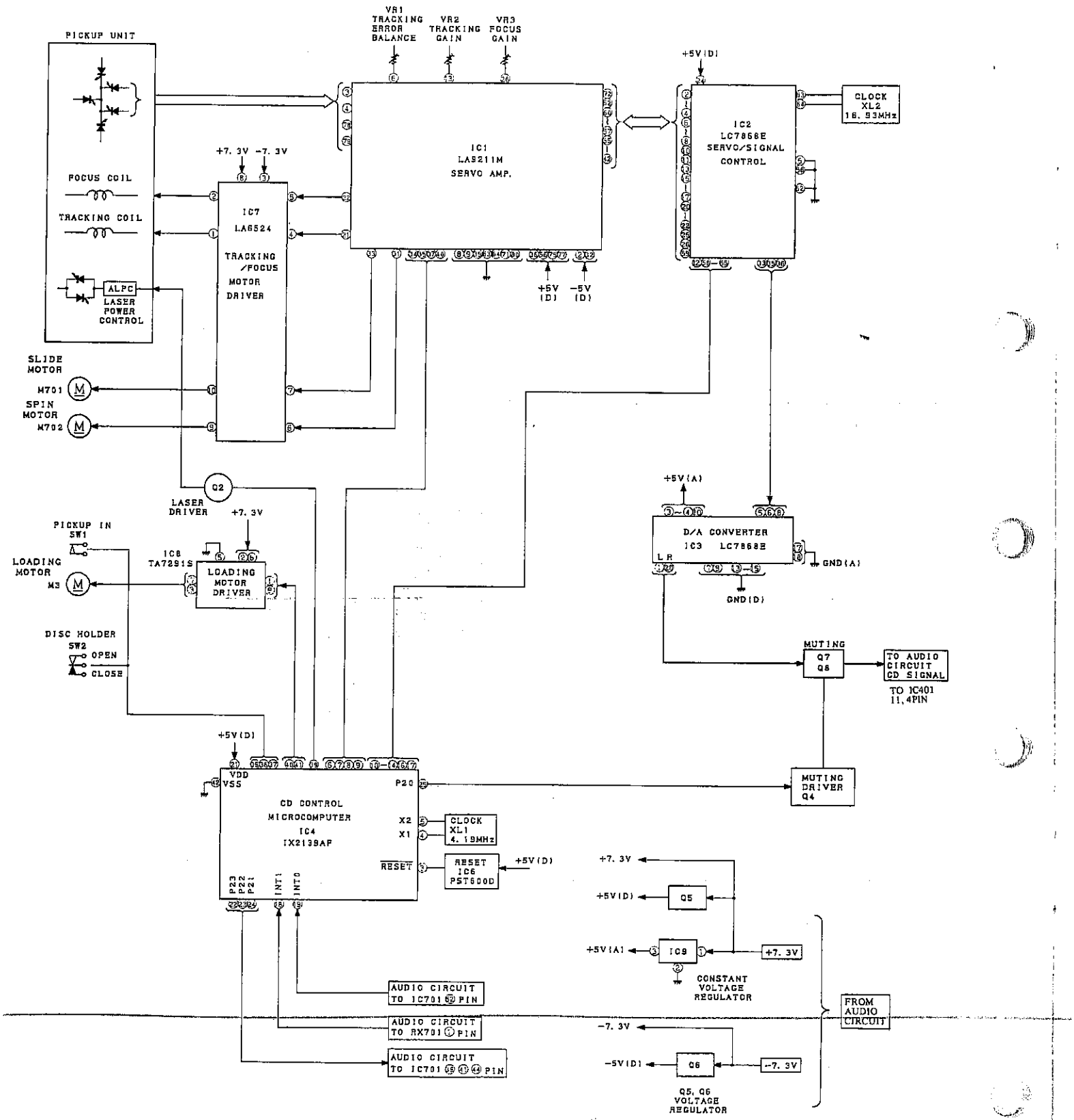


Figure 14 BLOCK DIAGRAM (1/2)

CD-S370X
CP-S370X

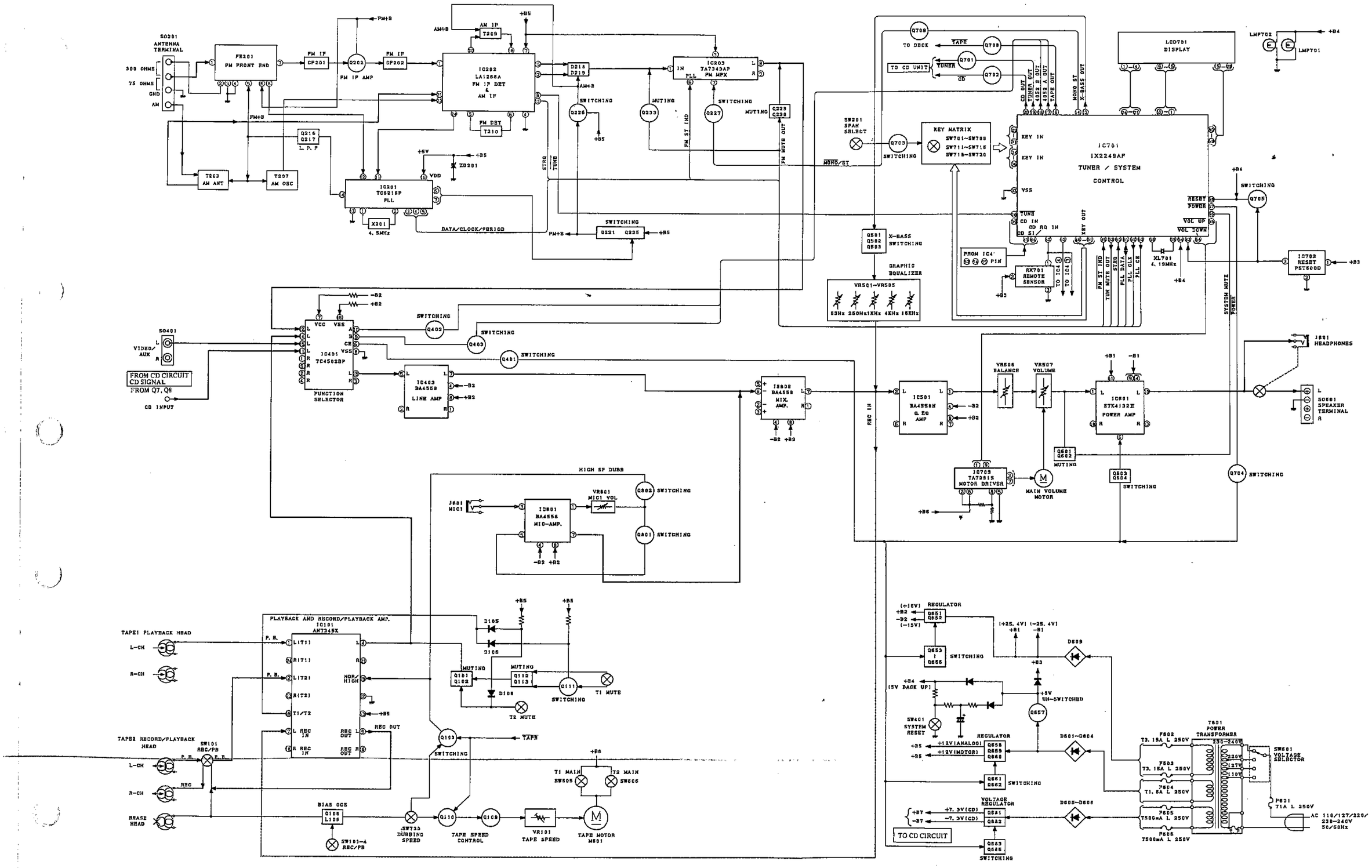


Figure 15 BLOCK DIAGRAM (2/2)

CD-S370X
CP-S370X

CD SERVO PWB-B

IC1 LA9211M SERVO AMP.

IC2 LC7868E SERVO/SIGNAL CONTROL

IC4 1X2139AP CD CONTROL MICROCOMPUTER

IC7 LA6524 TRACKING/ FOUCUS MOTOR DRIVER

IC8 TA7291S LOADING MOTOR DRIVER

IC9 CONSTANT VOLTAGE REGULATOR

IC3 LC75815 D/A CONVERTER

PICKUP UNIT

CD MOTOR PWB-E

TO MAIN PWB P30 8-H

TO DISPLAY PWB P21 1-B

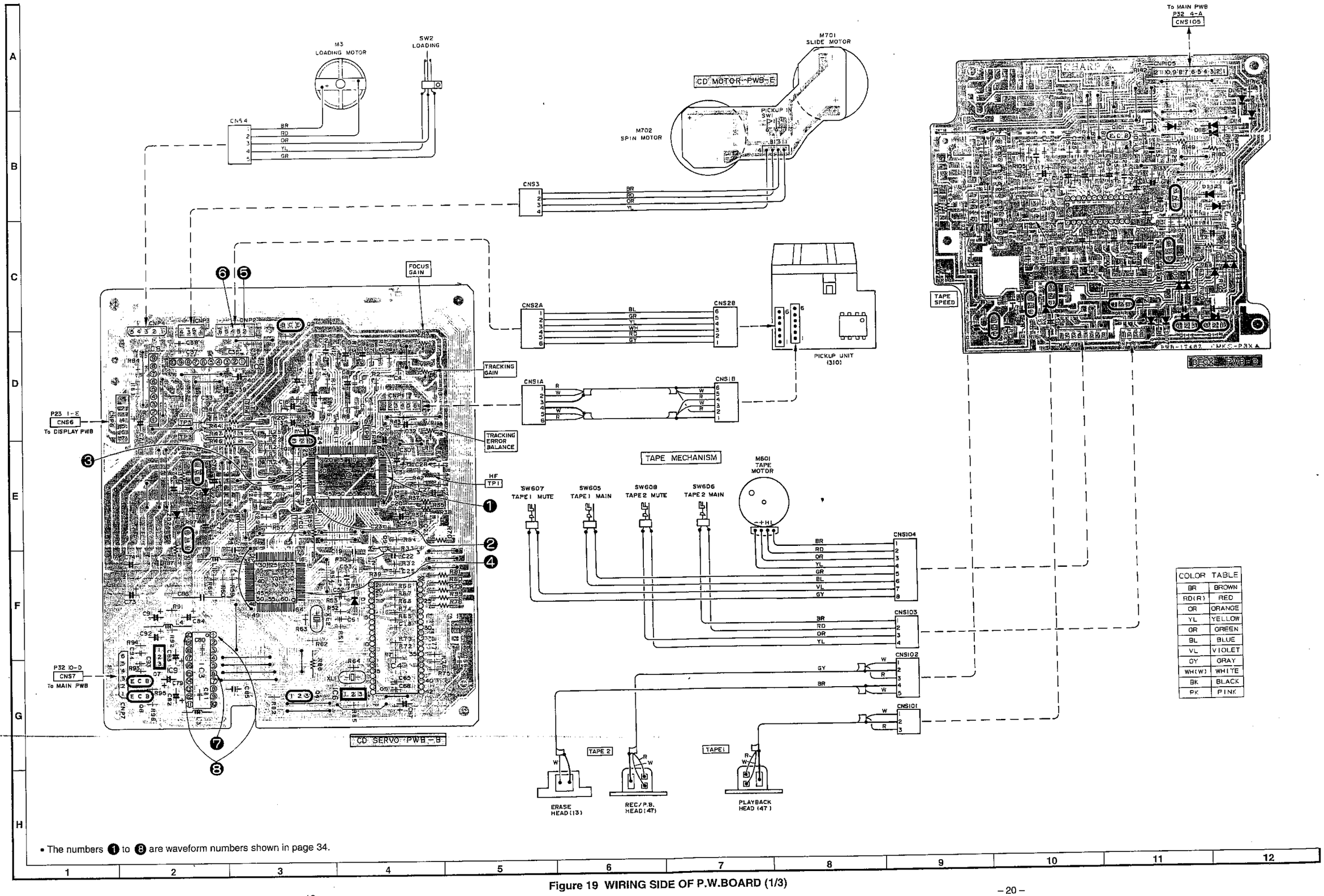
CD SIGNAL

• NOTES ON SCHEMATIC DIAGRAM can be found on page 33.

• The numbers ❶ to ❽ are waveform numbers shown in page 34.

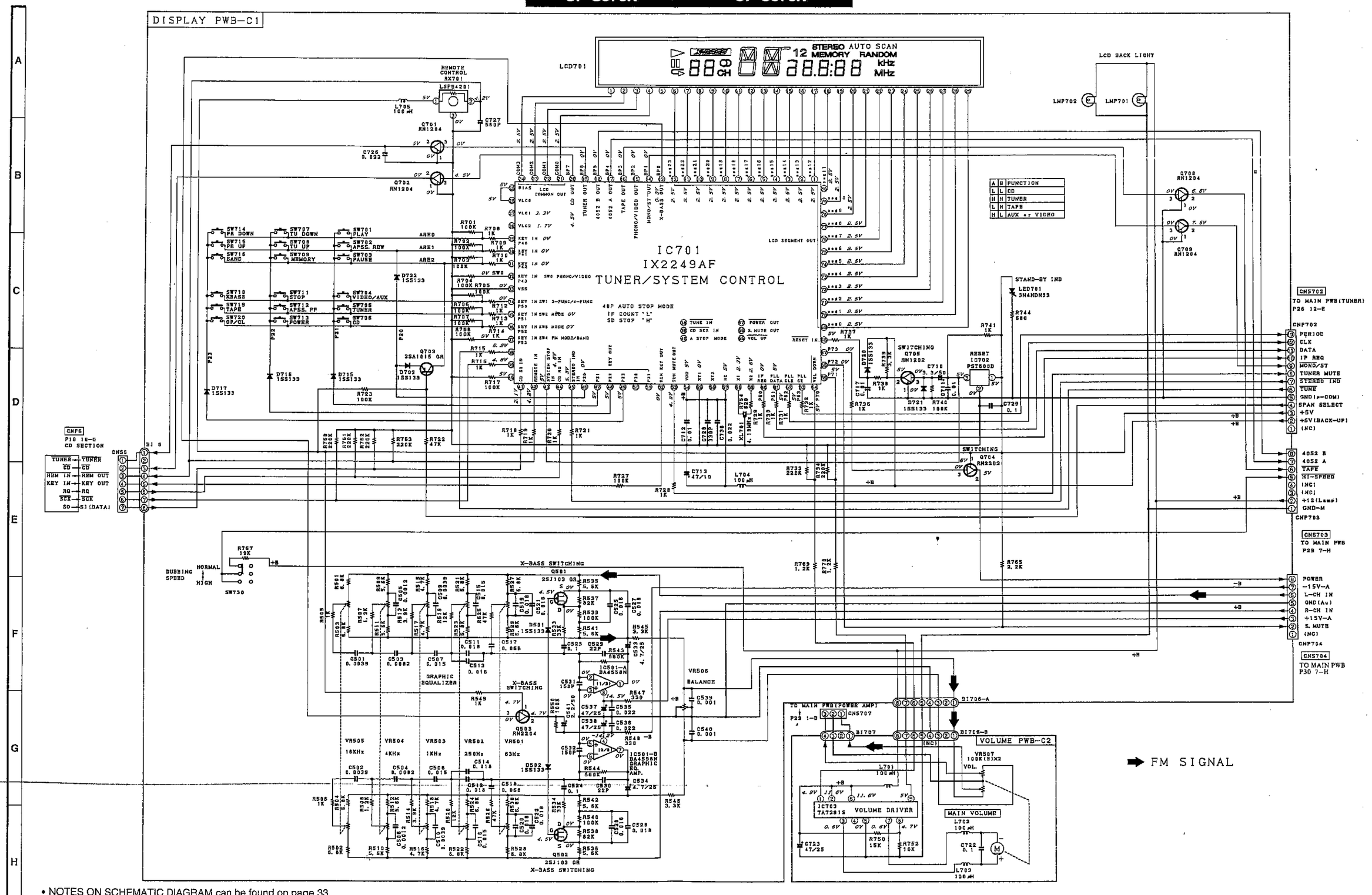
Figure 17 SCHEMATIC DIAGRAM (1/5)

CD-S370X
CP-S370X



• The numbers ❶ to ❽ are waveform numbers shown in page 34.

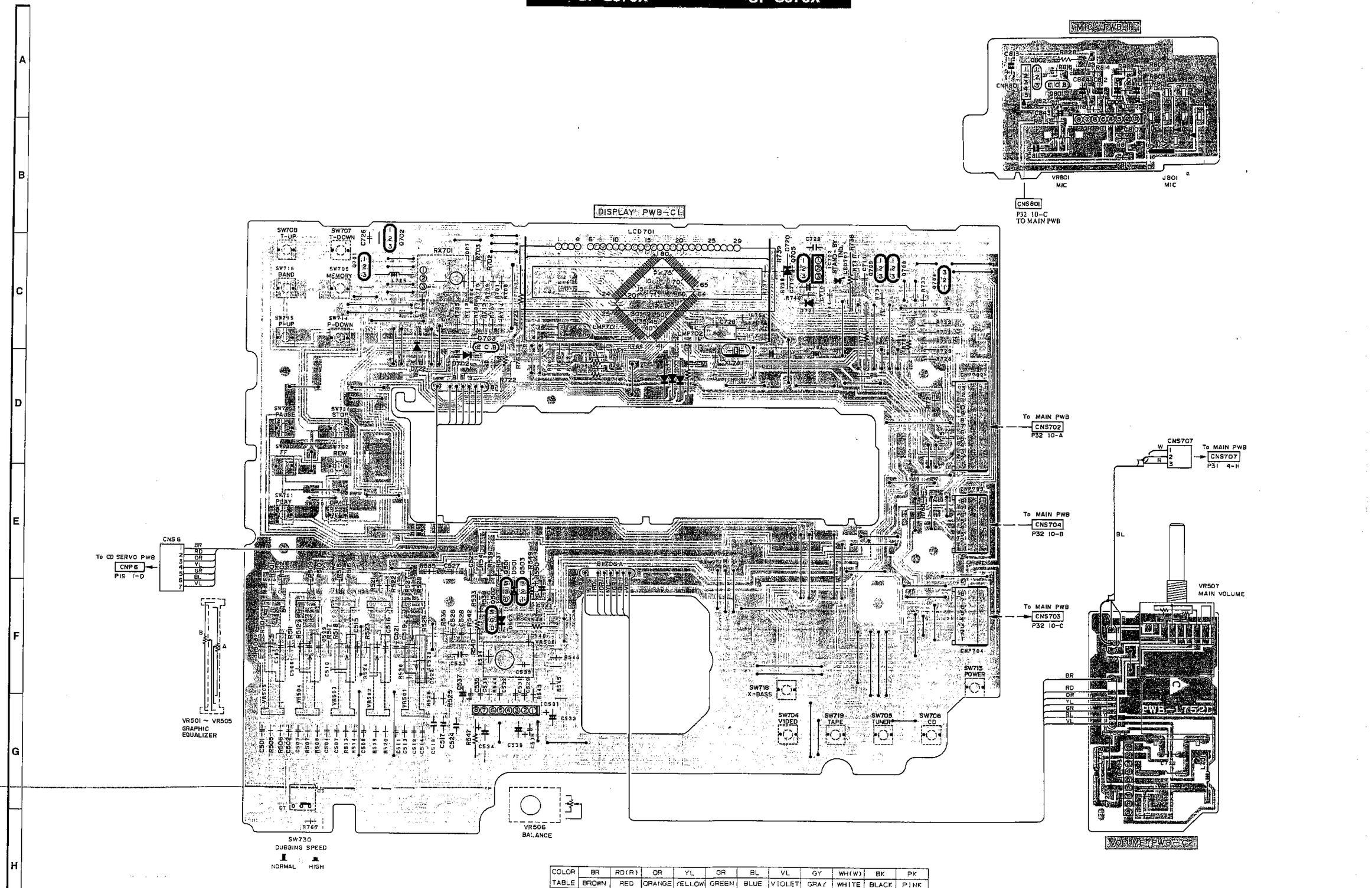
Figure 19 WIRING SIDE OF P.W.BOARD (1/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 33.

Figure 21 SCHEMATIC DIAGRAM (2/5)

CD-S370X
CP-S370X

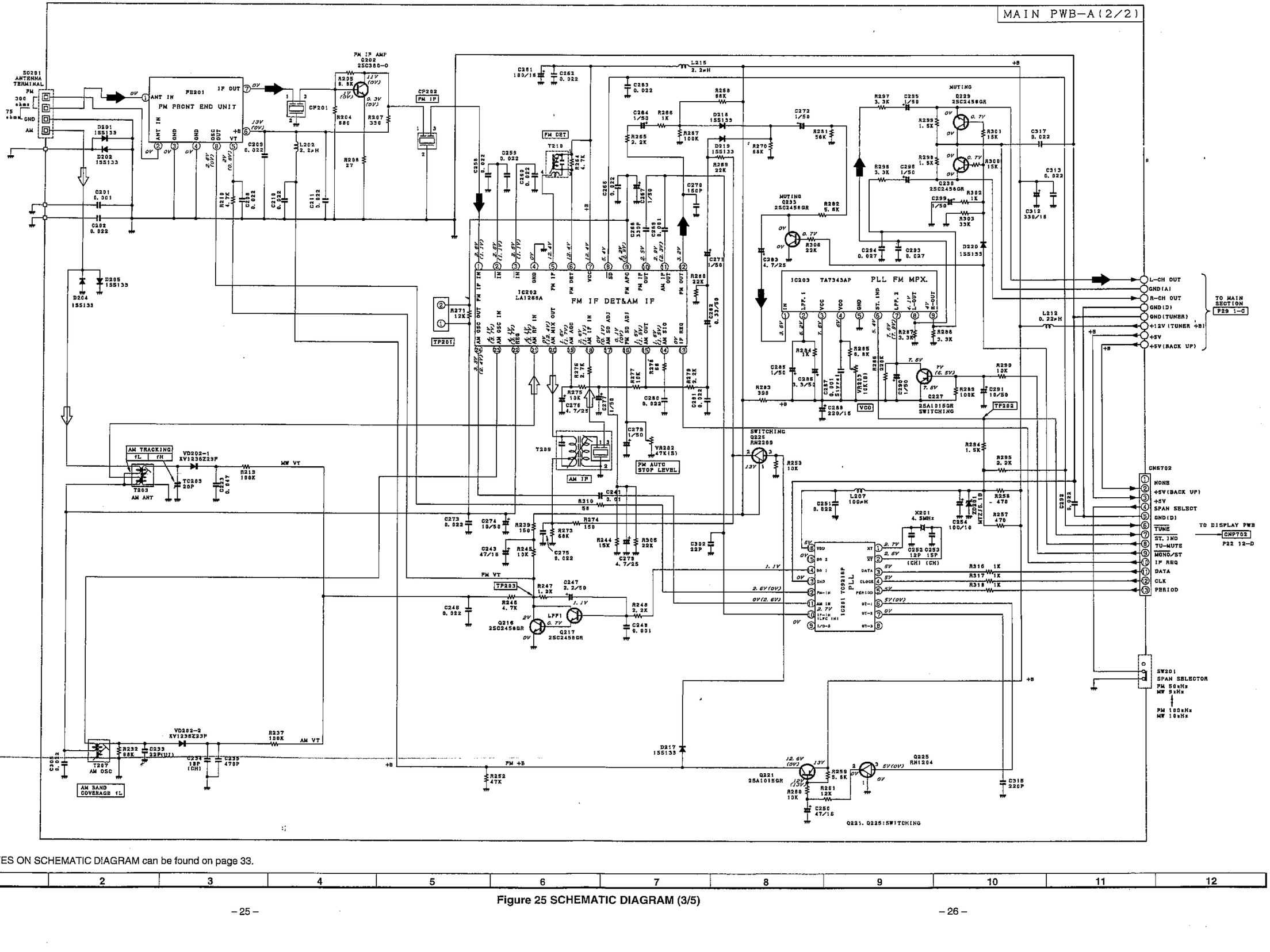


COLOR	BR	RD(R)	OR	YL	GR	BL	VL	GY	WH(W)	BK	PK
TABLE	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK	PINK

Figure 23 WIRING SIDE OF P.W.BOARD (2/3)

➡ FM SIGNAL ⇨ AM SIGNAL

MAIN PWB-A(2/2)

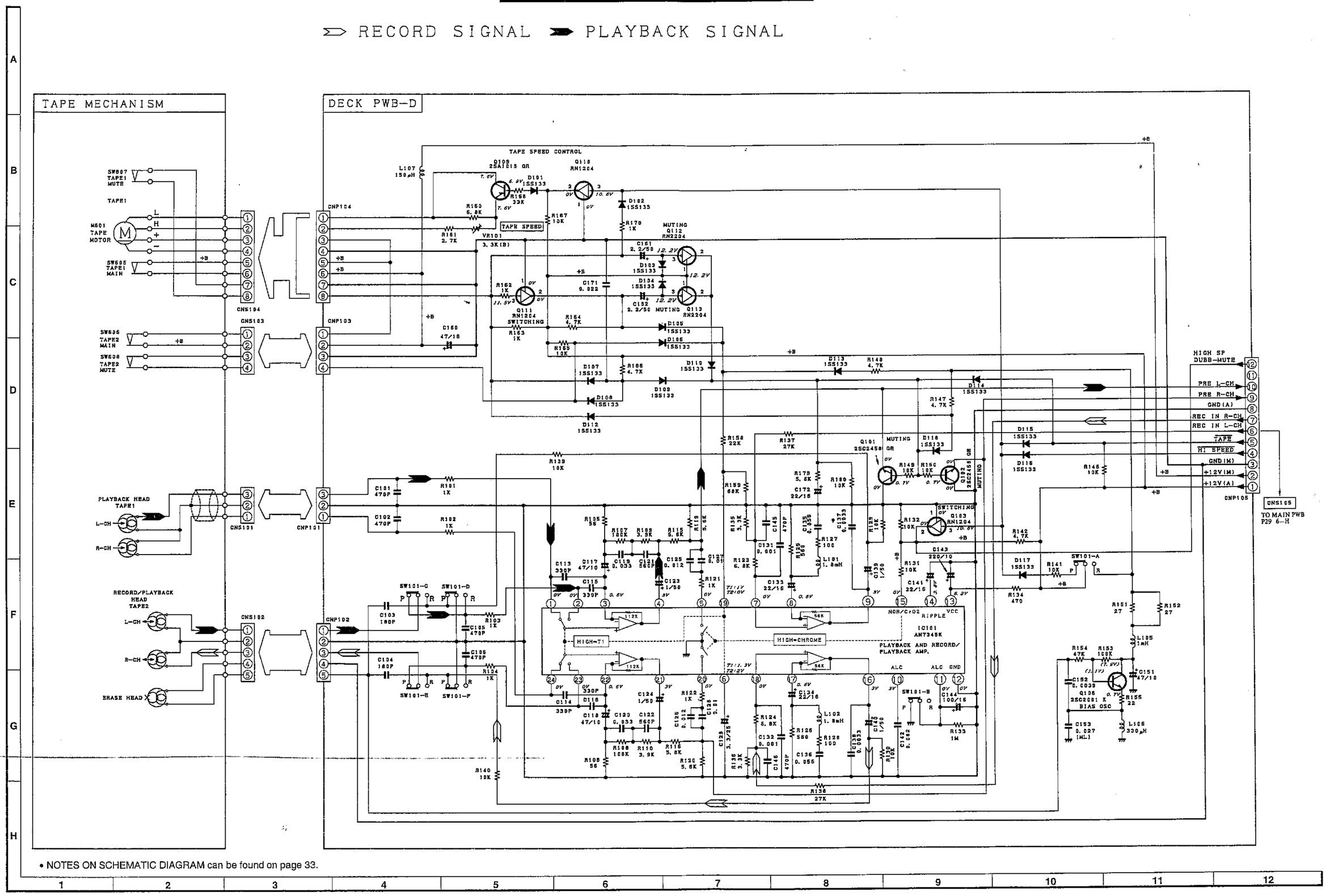


• NOTES ON SCHEMATIC DIAGRAM can be found on page 33.

Figure 25 SCHEMATIC DIAGRAM (3/5)

CD-S370X
CP-S370X

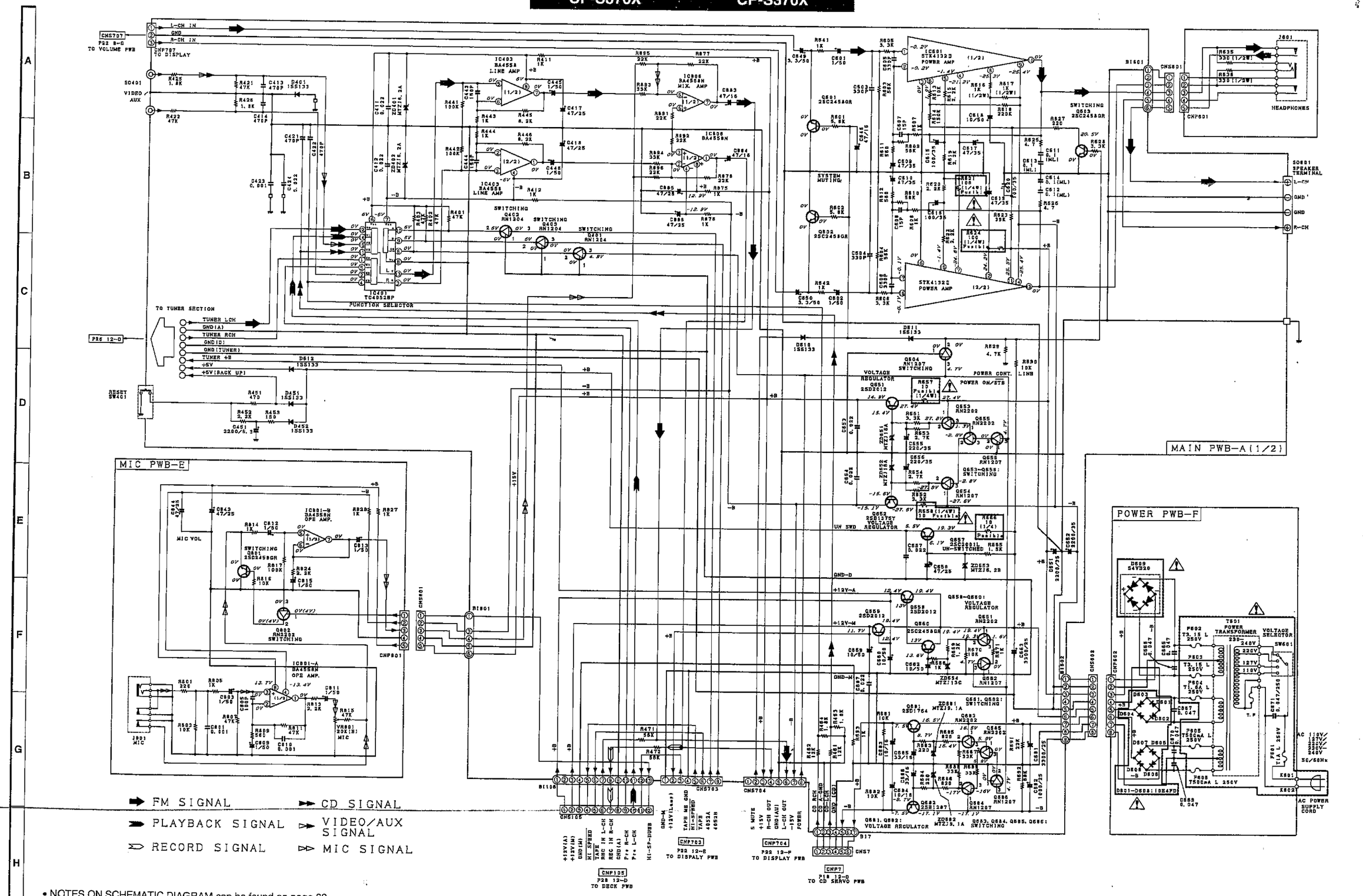
RECORD SIGNAL ➡ PLAYBACK SIGNAL



• NOTES ON SCHEMATIC DIAGRAM can be found on page 33.

Figure 27 SCHEMATIC DIAGRAM (4/5)

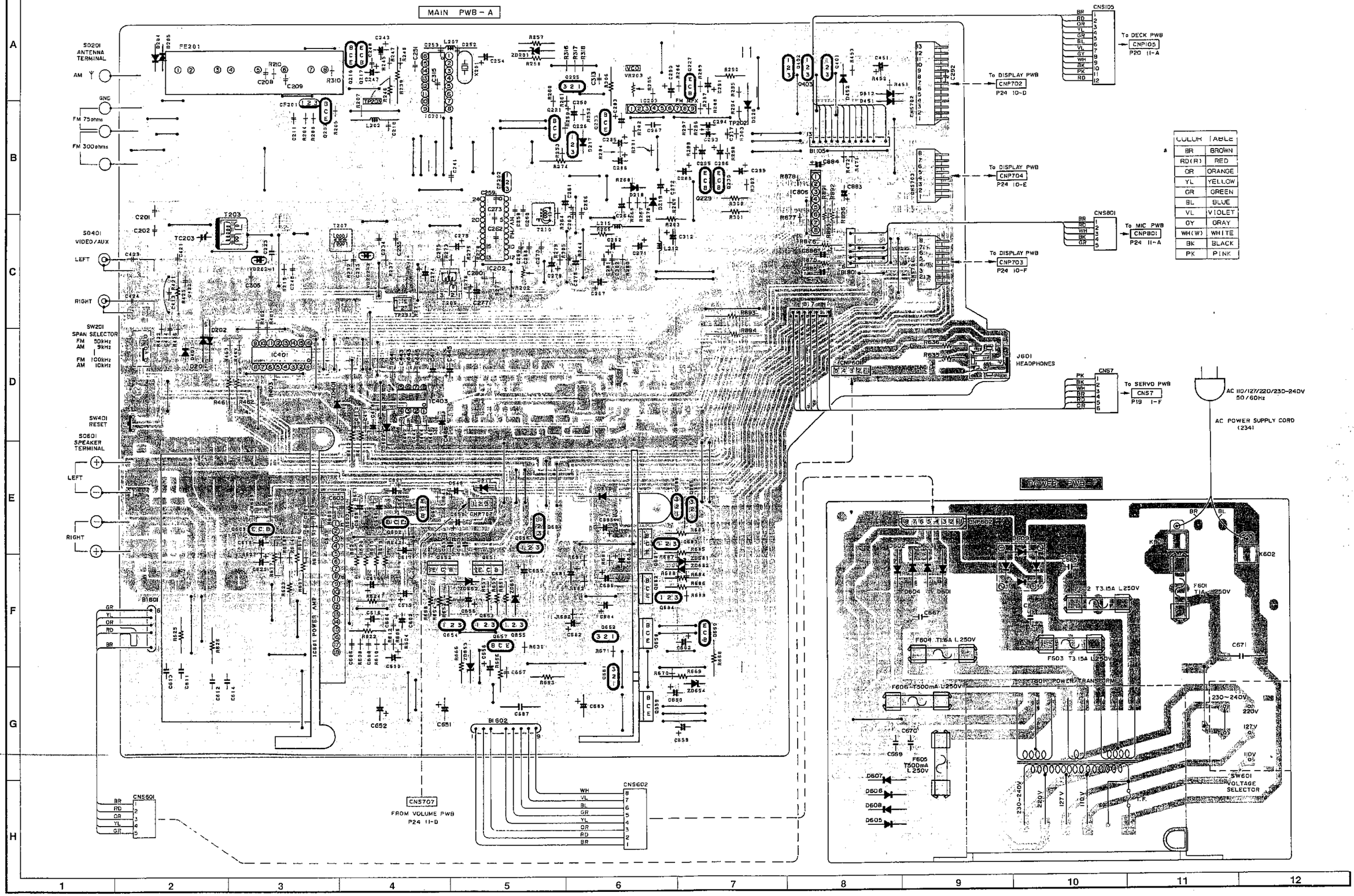
CD-S370X
CP-S370X



• NOTES ON SCHEMATIC DIAGRAM can be found on page 33.

Figure 29 SCHEMATIC DIAGRAM (5/5)

CD-S370X
CP-S370X



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 31 WIRING SIDE OF P.W.BOARD (3/3)

CD-S370X
CP-S370X

NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. Tuner:
   ( ): AM mode
   Marking except for ( ): FM mode
2. CD
   ( ): Play mode
   Marking except for ( ): Stop state
3. Deck section
   ( ): Record mode
   Marking except for ( ): Playback mode
   Display / Control section:
   ( ):Active state
   Marking except for ( ): CD Function mode at stop state

- Schematic Diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- Parts marked with " ⚠ " (⊏ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	PICKUP IN	OFF
SW2	LOADING	CLOSE
SW101	RECORD/PLAYBACK	PLAY
SW201	SPAN SELECTOR	100/10 kHz
SW401	RESET	OFF
SW601	VOLTAGE SELECTOR	230 ~ 240V
SW605	TAPE 1 MAIN	OFF
SW606	TAPE 2 MAIN	OFF
SW607	TAPE 1 MUTE	OFF
SW608	TAPE 2 MUTE	OFF
SW701	CD PLAY	OFF
SW702	CD APSS REWIND	OFF
SW703	CD PAUSE	OFF
SW704	VIDEO/AUX	OFF
SW705	TUNER	OFF

REF.NO	DESCRIPTION	POSITION
SW706	CD	OFF
SW707	TUNING-DOWN	OFF
SW708	TUNING-UP	OFF
SW709	MEMORY	OFF
SW711	STOP	OFF
SW712	CD APSS FORWARD	OFF
SW713	POWER	OFF
SW714	PRESET DOWN	OFF
SW715	PRESET UP	OFF
SW716	BAND	OFF
SW718	X-BASS	OFF
SW719	TAPE	OFF
SW720	OPEN/CLOSE	OFF
SW730	DUBBING SPEED	NORMAL

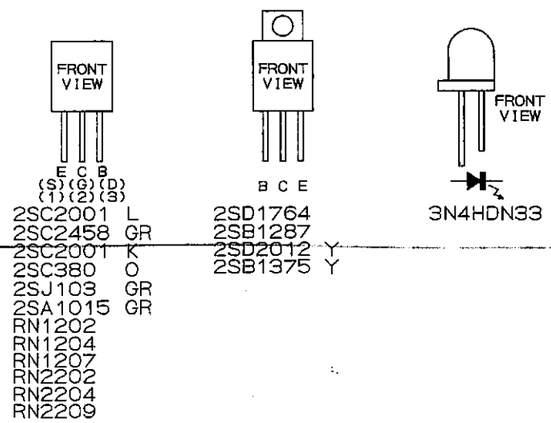
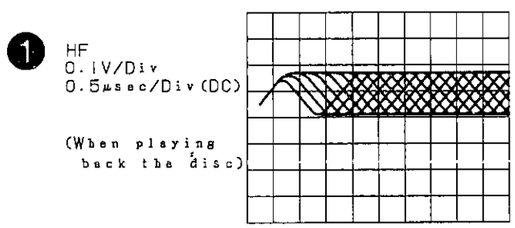
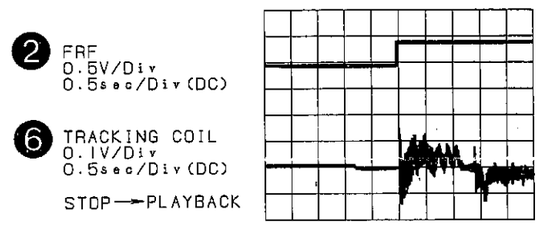
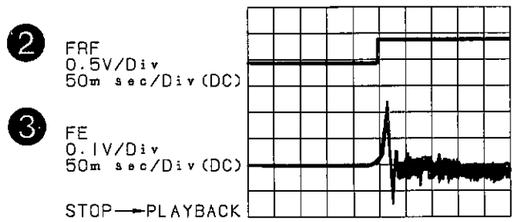


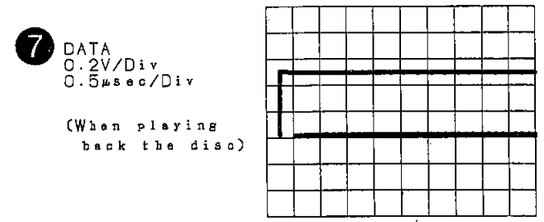
Figure 33 TYPES OF TRANSISTOR AND LED

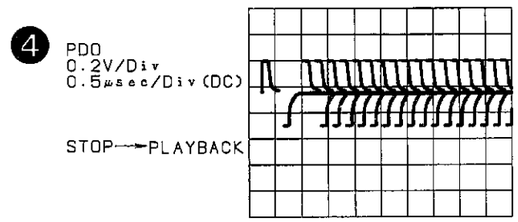
WAVEFORMS OF CD CIRCUIT

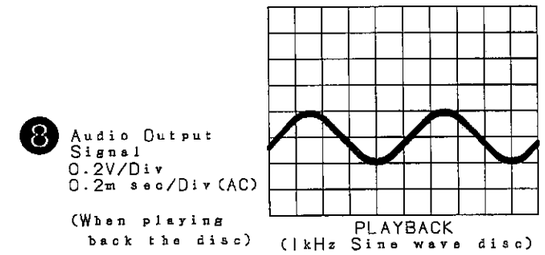


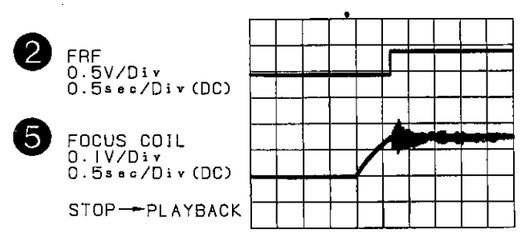












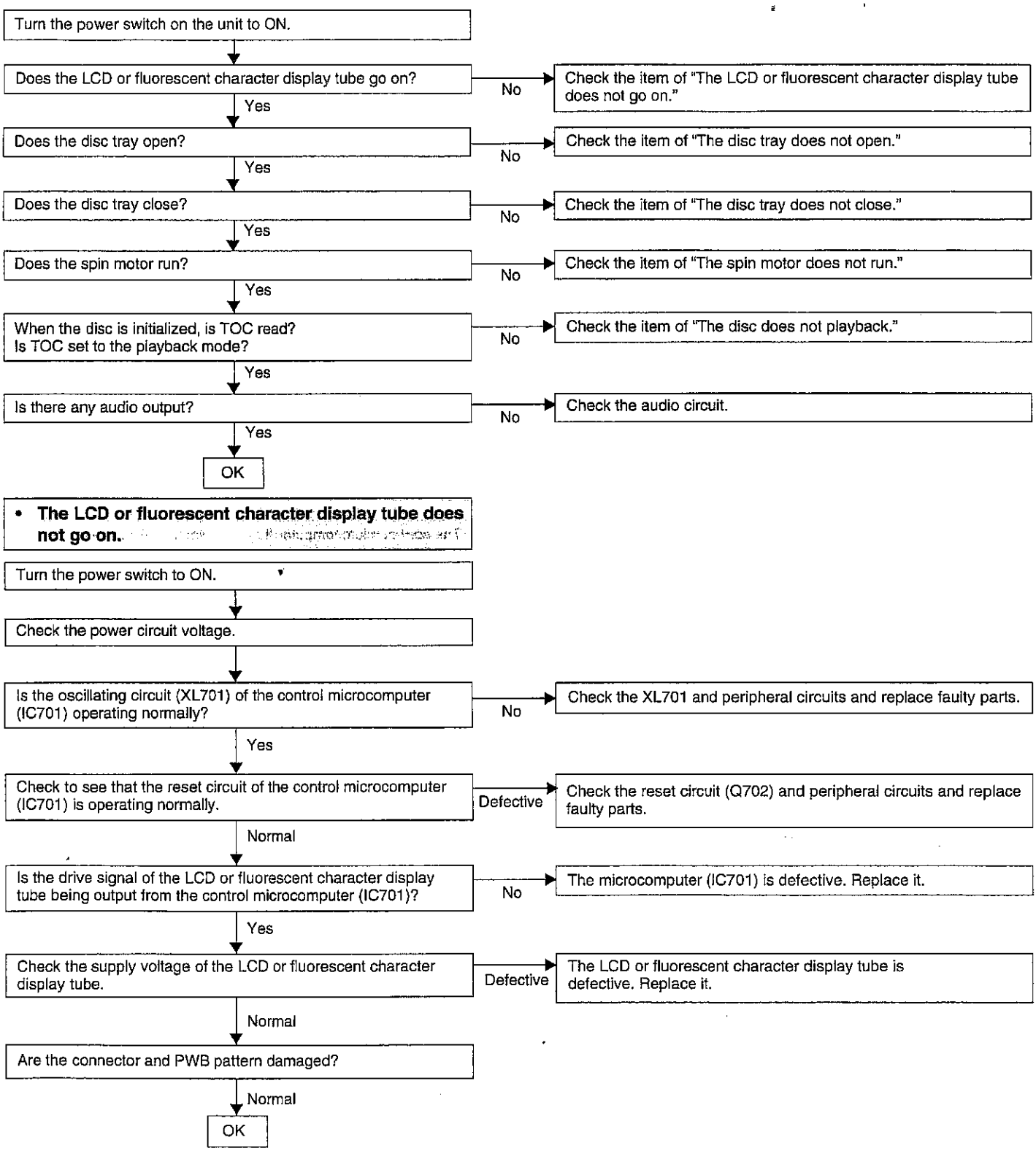
NOTE:
1. Use 10:1 probe to connect.
2. ❷ ❸ ❹ ❺ ❻ The storage oscilloscope was used for measurement.

TROUBLESHOOTING (CD SECTION)

When the CD does not function

When the CD section does not operate When the objective lens of the optical pickup is dirty,this section may not operate.Clean the objective lens,and check the playback operation.When this section does not operate even after the above step is taken,check the following items. Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC(Table Of Contents) may be caused by a build up of dust other foreign matter on the laser pickup lens.Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

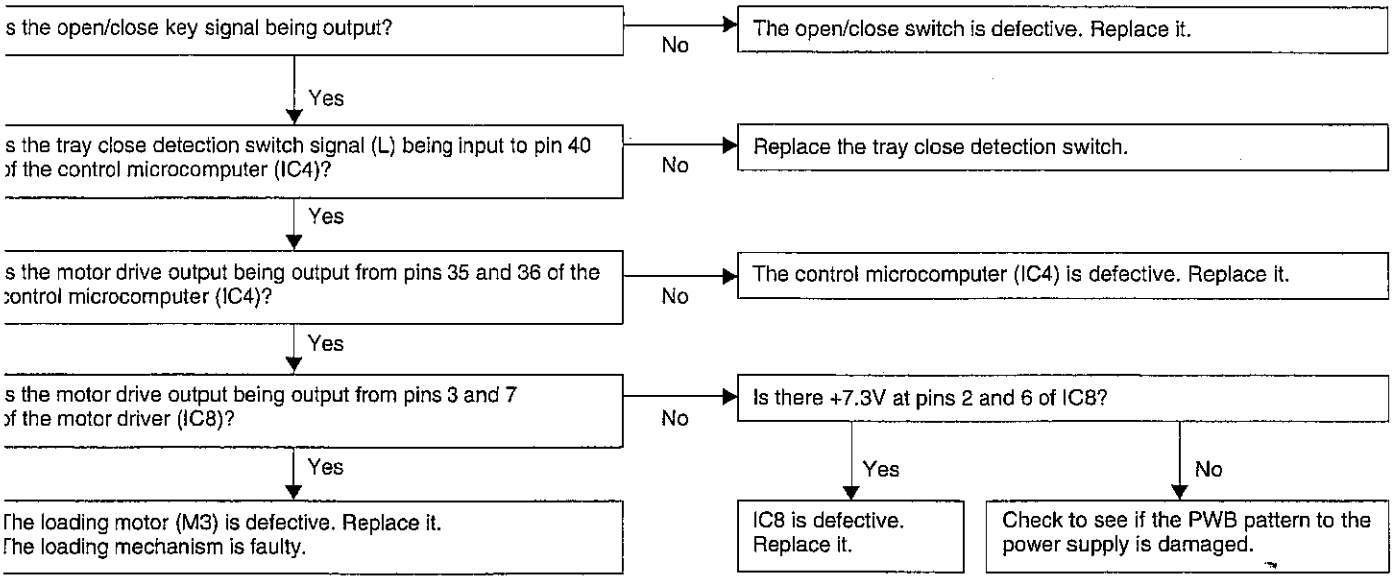
Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.


Turn the power switch on the unit to ON.
Does the LCD or fluorescent character display tube go on?
No
Check the item of "The LCD or fluorescent character display tube does not go on."
Yes
Does the disc tray open?
No
Check the item of "The disc tray does not open."
Yes
Does the disc tray close?
No
Check the item of "The disc tray does not close."
Yes
Does the spin motor run?
No
Check the item of "The spin motor does not run."
Yes
When the disc is initialized, is TOC read?
Is TOC set to the playback mode?
No
Check the item of "The disc does not playback."
Yes
Is there any audio output?
No
Check the audio circuit.
Yes
OK

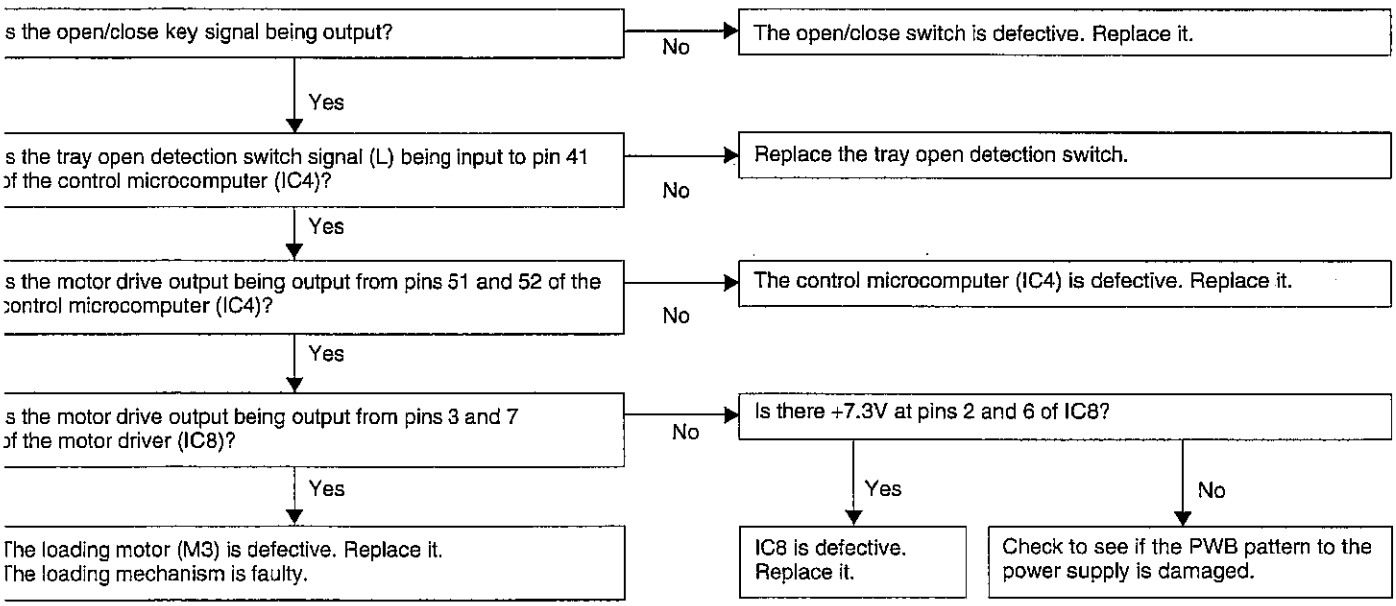
- **The LCD or fluorescent character display tube does not go on.**

Turn the power switch to ON.
Check the power circuit voltage.
Is the oscillating circuit (XL701) of the control microcomputer (IC701) operating normally?
No
Check the XL701 and peripheral circuits and replace faulty parts.
Yes
Check to see that the reset circuit of the control microcomputer (IC701) is operating normally.
Defective
Check the reset circuit (Q702) and peripheral circuits and replace faulty parts.
Normal
Is the drive signal of the LCD or fluorescent character display tube being output from the control microcomputer (IC701)?
No
The microcomputer (IC701) is defective. Replace it.
Yes
Check the supply voltage of the LCD or fluorescent character display tube.
Defective
The LCD or fluorescent character display tube is defective. Replace it.
Normal
Are the connector and PWB pattern damaged?
Normal
OK

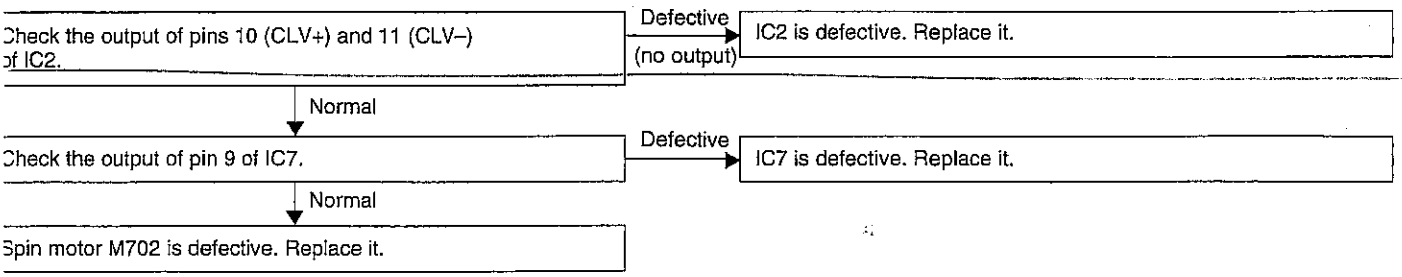
The disc tray does not open.


s the open/close key signal being output?
No
The open/close switch is defective. Replace it.
Yes
s the tray close detection switch signal (L) being input to pin 40 of the control microcomputer (IC4)?
No
Replace the tray close detection switch.
Yes
s the motor drive output being output from pins 35 and 36 of the control microcomputer (IC4)?
No
The control microcomputer (IC4) is defective. Replace it.
Yes
s the motor drive output being output from pins 3 and 7 of the motor driver (IC8)?
No
Is there +7.3V at pins 2 and 6 of IC8?
Yes
No
Yes
The loading motor (M3) is defective. Replace it.
The loading mechanism is faulty.
IC8 is defective. Replace it.
Check to see if the PWB pattern to the power supply is damaged.

The disc tray does not close.


s the open/close key signal being output?
No
The open/close switch is defective. Replace it.
Yes
s the tray open detection switch signal (L) being input to pin 41 of the control microcomputer (IC4)?
No
Replace the tray open detection switch.
Yes
s the motor drive output being output from pins 51 and 52 of the control microcomputer (IC4)?
No
The control microcomputer (IC4) is defective. Replace it.
Yes
s the motor drive output being output from pins 3 and 7 of the motor driver (IC8)?
No
Is there +7.3V at pins 2 and 6 of IC8?
Yes
No
Yes
The loading motor (M3) is defective. Replace it.
The loading mechanism is faulty.
IC8 is defective. Replace it.
Check to see if the PWB pattern to the power supply is damaged.

The spin motor does not run.


Check the output of pins 10 (CLV+) and 11 (CLV–) of IC2.
Defective (no output)
IC2 is defective. Replace it.
Normal
Check the output of pin 9 of IC7.
Defective
IC7 is defective. Replace it.
Normal
Spin motor M702 is defective. Replace it.

- **The disc does not playback.**

Is the disc initialized?

No → Does the laser diode go on?

- A Check the item of "The laser diode goes on."
- B Check the item of "The laser diode does not go on."

Yes

Does the tracking servo operate normally?
Is the EFM signal of pin 72 of IC1 flat? (Lower side)

No → Check if the objective lens of the pickup is dirty.
If it is dirty, clean it.
Does the spin motor run normally?
Check the waveform of pins 10 (CLV+) and 11 (CLV–) of IC2.

No → IC2 is defective. Replace it.

Normal

Is there any dropout part in the EFM signal of pin 72 of IC1?

Yes → Replace the disc or change the program.

Yes

Normal

Is the tracking error signal (pin 9 of IC1) being output?

No → Is the tracking signal being output from the pickup main unit?

No → The pickup is defective.

Yes → Replace the IC1.

Yes

In the stop mode, is the tracking coil drive output (pin 4 of CNP2) 0 ± 50mV?

No → Incorrect adjustment
In the stop mode, adjust the tracking offset to 0 ± 50mV.

Yes

Is the tracking coil drive output being output from the tracking driver output (pin 2 of IC7)?

No → IC7 is defective.
The PWB negative pattern is damaged.

Yes

The pickup connecting connector is broken.
The pickup tracking coil is broken.

• A The laser diode goes on.

When the tray is closed without loading disc, does the pickup lens move up and down?

Yes → Is the EFM signal of pin 36 of IC1 being output?

No → • Pickup height error
• Laser diode output error

The pickup is defective. Replace it.

Yes

No

Are the voltages at pins 8 and 3 of the focus driver (IC7) +7.3V and −7.3V, respectively?

No → Check the power circuit.

Yes

Is the DRF disc reflection signal of pin 40 of the servo signal control (IC1) at a high level?

No → The servo amplifier (IC1) is defective.

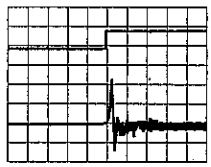
Yes

Is the high/low level repetition output for leading the focus servo of pin 13 of IC2 being output?

Is the output of pin 36 of IC1 as shown below?

Pin 40 of IC1
DRF

Pin 26 of IC1
FE



No → The servo amplifier (IC1) is defective.

No → IC2 is defective.

Yes

Yes

s the high/low repetition output being output from pin 1 of IC7?

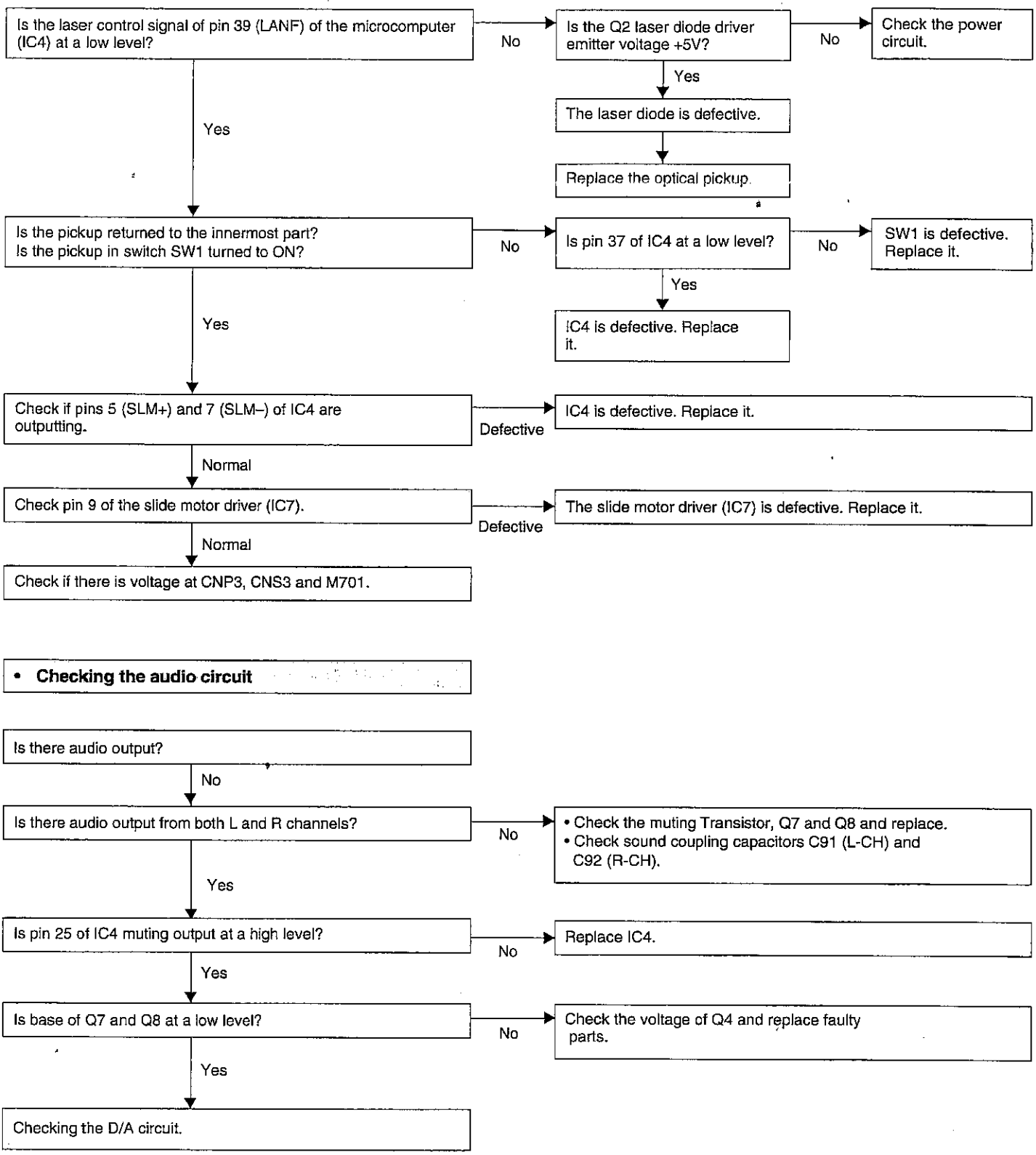
Check to see that the focus circuit is normal and check the distribution connector.

No → The focus driver (IC7) is defective. Replace it.

Yes

Check connectors CNS1A/B and CNP1, 2.

• B The laser diode does not go on.


Is the laser control signal of pin 39 (LANF) of the microcomputer (IC4) at a low level?
No
Is the Q2 laser diode driver emitter voltage +5V?
No
Check the power circuit.
Yes
The laser diode is defective.
Replace the optical pickup.
Yes
Is the pickup returned to the innermost part?
Is the pickup in switch SW1 turned to ON?
No
Is pin 37 of IC4 at a low level?
No
SW1 is defective. Replace it.
Yes
IC4 is defective. Replace it.
Yes
Check if pins 5 (SLM+) and 7 (SLM–) of IC4 are outputting.
Defective
IC4 is defective. Replace it.
Normal
Check pin 9 of the slide motor driver (IC7).
Defective
The slide motor driver (IC7) is defective. Replace it.
Normal
Check if there is voltage at CNP3, CNS3 and M701.

• Checking the audio circuit

Is there audio output?
No
Is there audio output from both L and R channels?
No
• Check the muting Transistor, Q7 and Q8 and replace.
• Check sound coupling capacitors C91 (L-CH) and C92 (R-CH).
Yes
Is pin 25 of IC4 muting output at a high level?
No
Replace IC4.
Yes
Is base of Q7 and Q8 at a low level?
No
Check the voltage of Q4 and replace faulty parts.
Yes
Checking the D/A circuit.

FUNCTION TABLE OF IC

C4 92LiCiX2139 (IX2139AF)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	XT1	XT1	Input	Connected to VSS.
2*	XT2	XT2	Input	Open terminal.
3	RESET	RESET	Input	System reset terminal.
4	X1	X1	Input	System clock input.
5	X2	X2	Input	System clock input.
6	P33	FRF	Input	Connected to VSS.
7	P32	FED OFF	Output	SL+/SL-: "H", STOP: "H".
8	P31	SLM+	Output	Slide motor drive output +.
9	P30	SLM-	Output	Slide motor drive output -.
10	P81	RESET	Output	System reset output.
11	P80	RWC	Output	Request to send a sirial data subcode command.
12	SI	SI	Input	Sirial data (μ-CON-LSI) subcode data input.
13	SO	SO	Output	Sirial data (μ-CON-LSI) subcode data command output.
14	SCK	SCK	Output	System clock (μ-CON-LSI).
15	INT4	TUNER	Input	Tuner function input.
16	P13	WRQ	Input	CRC (subcode Q) detection input.
17	P12	V/P	Input	CLV rough servo: "H", Phase control: "L".
18	INT1	REMCON	Input	15 bit data input terminal from remote control.
19	INT0	KEY	Input	15 bit data input terminal for key input. This takes priority over INY1.
20	NC	NC	—	Connected to VDD.
21	VDD	VDD	—	Power supply (+5V).
22	P23	RQ	Output	Data transfer start signal (μ-CON-display μ-CON).
23	P22	SCK	Output	System clock (μ-CON-display μ-CON).
24	P21	SO	Output	Data transmisson (μ-CON-display μ-CON).
25	P20	MUT	Output	CD muting output.
26	P73	CD	Input	CD function input.
27-29	P72-P70	—	Input	Connected to VSS.
30*-33*	P63-P60	—	Output	Open terminal.
34	P53	V/P	Input	CLV rough servo: "H", Phase control: "L".
35	P52	CLOSE	Input	Try close signal input.
36	P51	OPEN	Input	Try open signal input.
37	P50	PU-IN	Input	Pickup inner grove detection.
38*	P43	—	Output	Open terminal.
39	P42	LANF	Output	LANF output (Laser lights up).
40	P41	LOADM-	Output	Loading motor drive output-.
41	P40	LOADM+	Output	Loading motor drive output+.
42	VSS	VSS	—	GND.

this unit, the terminal with asterisked mark (*) is (open) terminal which is connected to the outside.

IC4 92LiCIX2139 (IX2139AF)

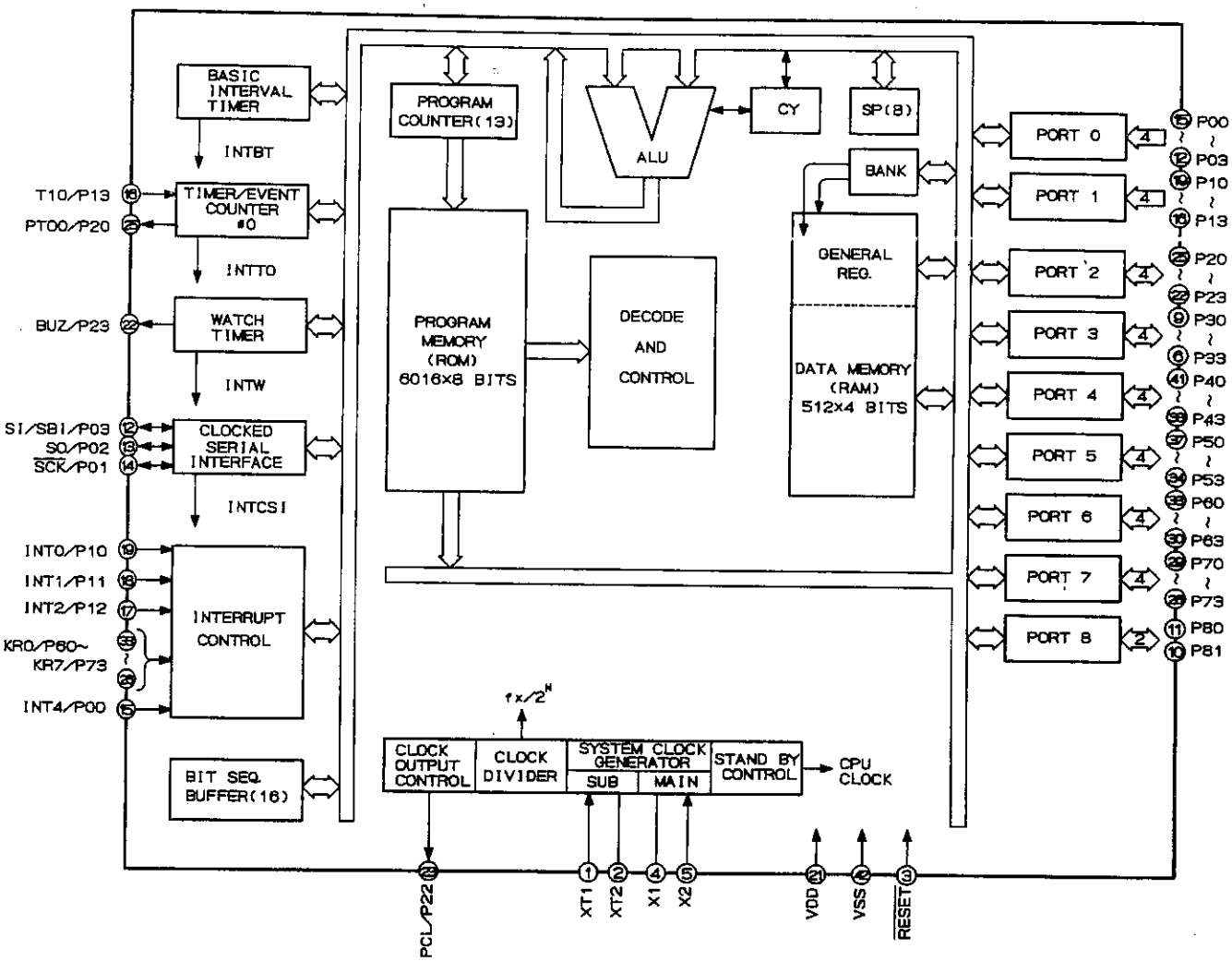


Figure 41 BLOCK DIAGRAM OF IC

C701 92LiC-iX2249 (IX2249AF)

Pin No.	Terminal Name	Port Name	Active H/L	Input/Output	Function
1-12	S12-S23	S12-S23	L/H	Output	LCD segment output
13	X-BASS	BPO	H	Output	X-BASS switching output
14	TUNERMONO/ST	BP1	L/H	Output	TUNER MONO/STEREO switching output
15*	PHONO/VIDEO	BP2	H	Output	PHONO/VIDEO Func. switching output
16	TAPE	BP3	H	Output	TAPE Func. switching output
17	A	BP4	H	Output	C-MOS MPX drive output A output
18	B	BP5	H	Output	C-MOS MPX drive output B output
19	TUNER	BP6	H	Output	Func. switching output TUNER
20	CD	BP7	H	Output	Func. switching output CD
21-24	COM0-COM3	COM0-COM3	L/H	Output	LCD common output
25	BIAS	BIAS	—	Output	Externally mounted split resistor divider output
26-28 (27*,28*)	VLC0-VLC2	VLC0-VLC2	—	Output	LCD drive power output
29-32	KR0-KR3	P40-P43	H	Input	Key return input
33	Vss	Vss	—	—	Connected to GND.
34-37	KR4-KR7	P50-P53	H	Input	Key return input
38	$\overline{\text{TUNE}}$	P00	L	Input	TUNING IND input
39	SCK	$\overline{\text{SCK}}$	L/H	Input	Serial clock input
40	SD/$\overline{\text{IF}}$.SO	P02	L	Input	AUTO STOP input
41	SI	SI	L/H	Input	Serial input
42	$\overline{\text{RMC}}$	INT0	L	Input	REMOCON input. Connect the receiver.
43	$\overline{\text{S.STOP}}$	P11	L	Input	System stop input
44	RQ	INT2	H	Input	RQ input
45	$\overline{\text{ST}}$	P13	L	Input	TUNER STEREO input
46-49	KS0-KS3	P20-P23	H	Output	Key strobe output
50*,51*	KS4,KS5	P30,P31	H	Output	Key strobe output
52	KEYOUT	P32	H	Output	Key DATA output
53	TUNE RMUTE	P33	H	Output	TUNER MUTE output
54	VDD	VDD	—	—	Connect power (+5V)
55	—	XT1	—	—	Connected GND.
56*	—	XT2	—	—	Not used.
57	—	NC	—	—	Connected to VDD
58,59	X1,X2	X1,X2	—	—	System clock. Connect CST4.19MHz.
60	STRQ	P60	H	Output	STRQ output to PLL
61	DATA	P61	H	Output	DATA output to PLL
62	CLK	P62	H	Output	CLK output to PLL
63	PERIOD	P63	L	Output	PERIOD output to PLL
64	$\overline{\text{VOL UP}}$	P70	L	Output	VOL.UP output
65	$\overline{\text{VOL DOWN}}$	P71	L	Output	VOL.DOWN output
66	S.MUTE	P72	L/H	Output	Various switching mute output
67	$\overline{\text{POWER}}$	P73	L	Output	POWER ON/OFF switching output
68	$\overline{\text{RESET}}$	$\overline{\text{RESET}}$	L	Input	Reset input
69-80	S0-S11	S0-S11	L/H	Output	LCD segment output

In this unit, the terminal with asterisked mark (*) is (open) terminal which is connected to the outside.

IC701 92LiC-iX2249 (IX2249AF)

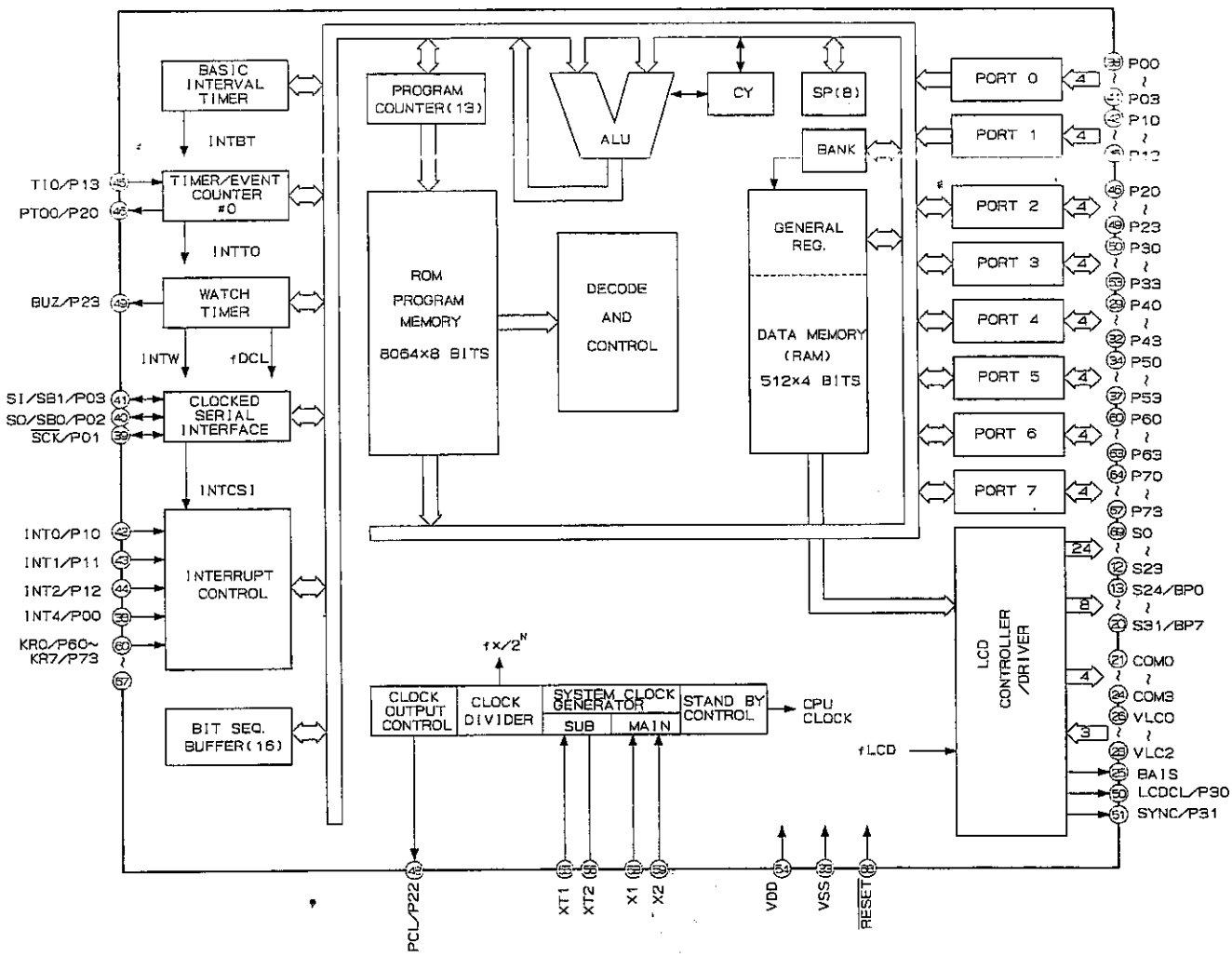


Figure 43 BLOCK DIAGRAM OF IC

IC1 VHiLA9211M/-1 (LA9211M)

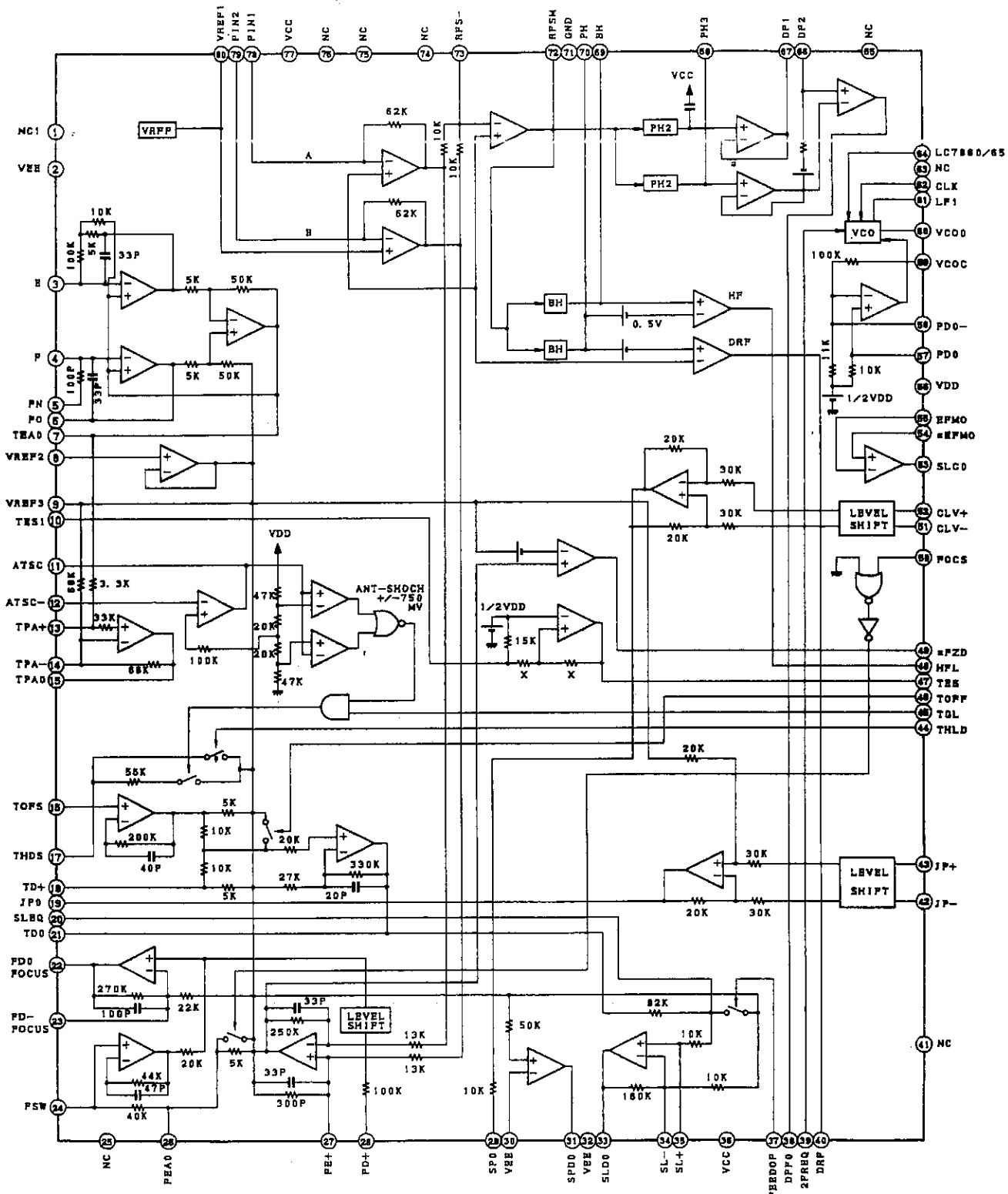


Figure 44 BLOCK DIAGRAM OF IC

LCD701 92LLCD1750A

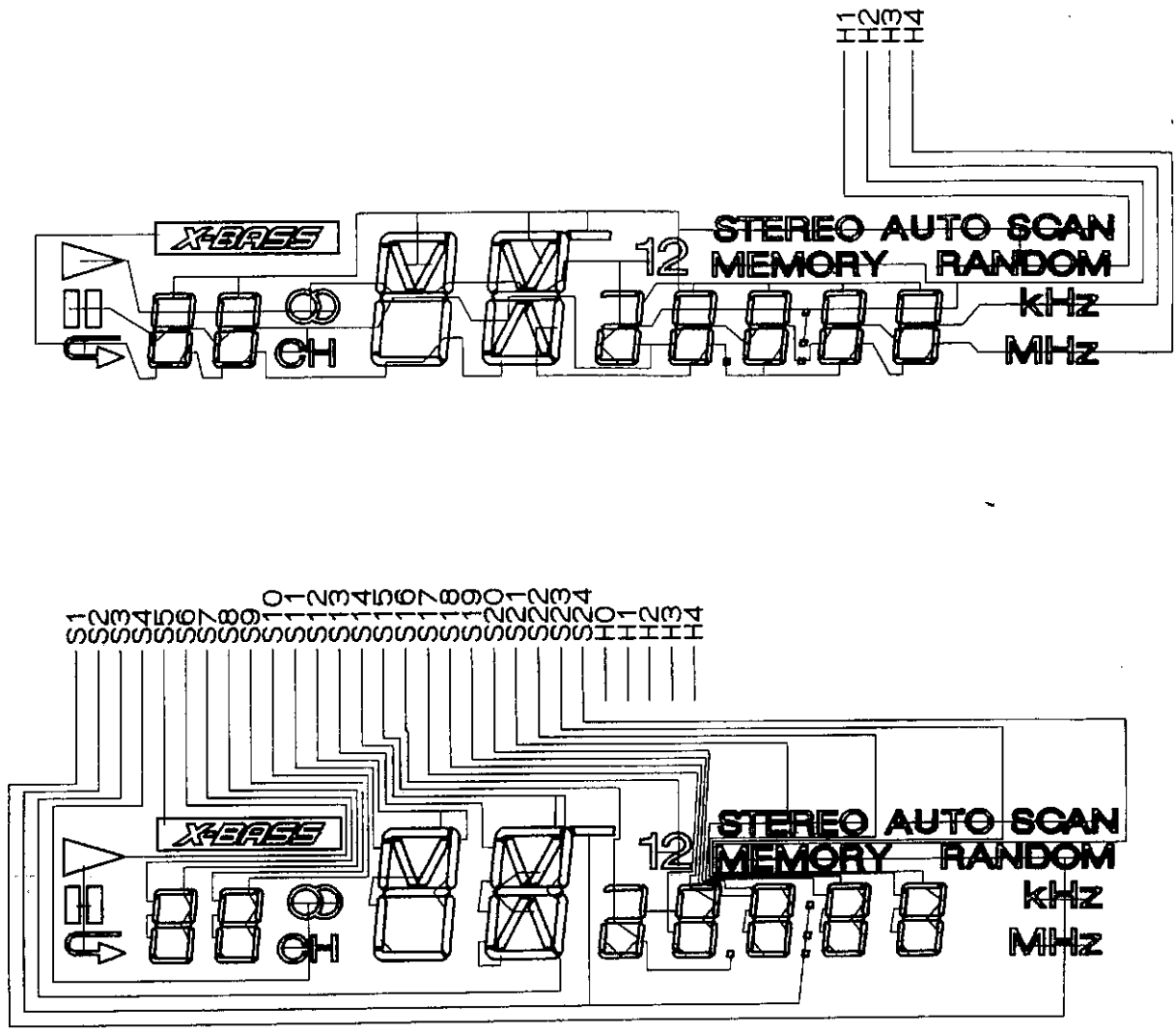


Figure 45 LCD SEGMENT

CD-S370X

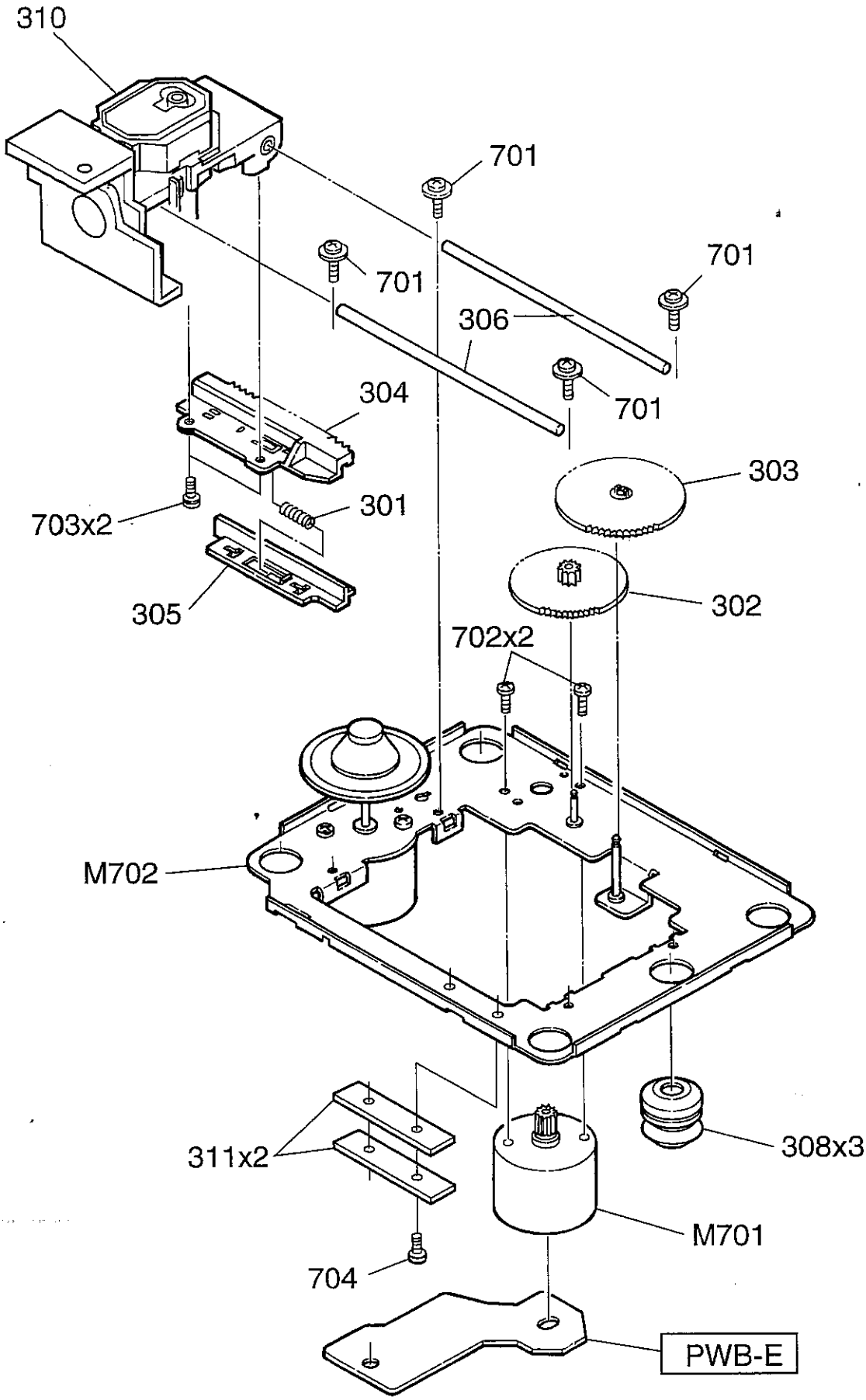


Figure 46 CD MECHANISM EXPLODED VIEW

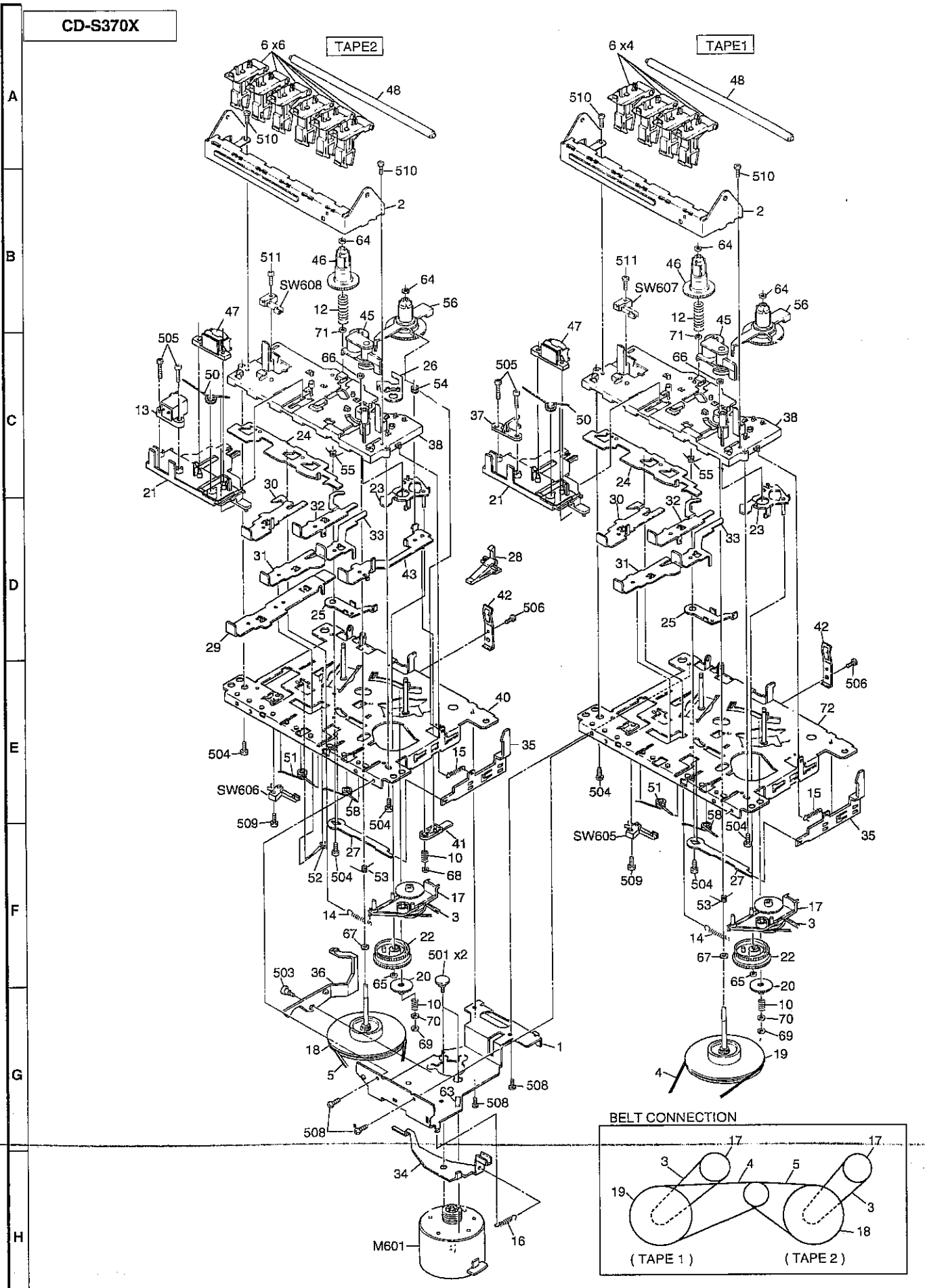


Figure 47 TAPE MECHANISM EXPLODED VIEW

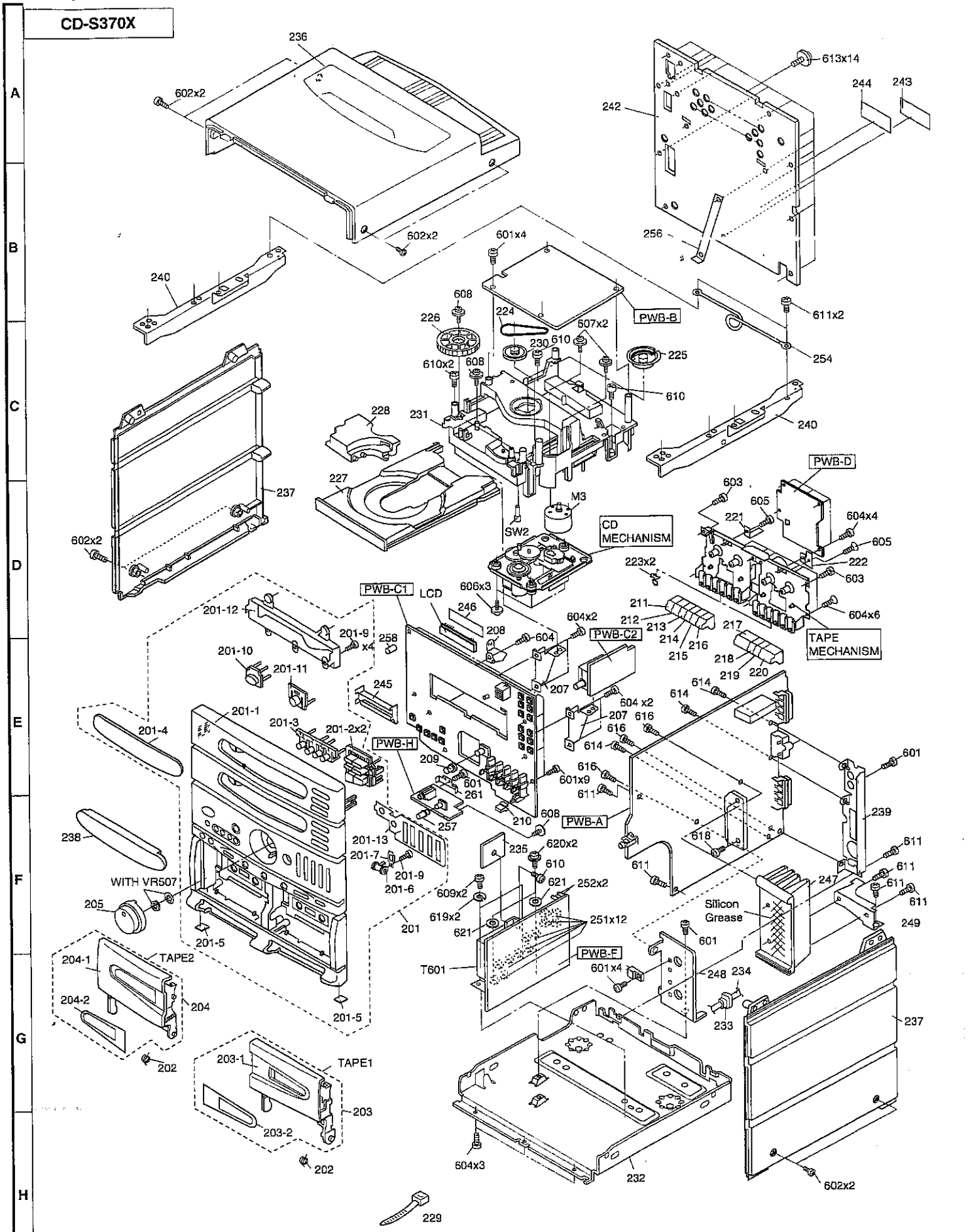


Figure 48 CABINET EXPLODED VIEW

CP-S370X

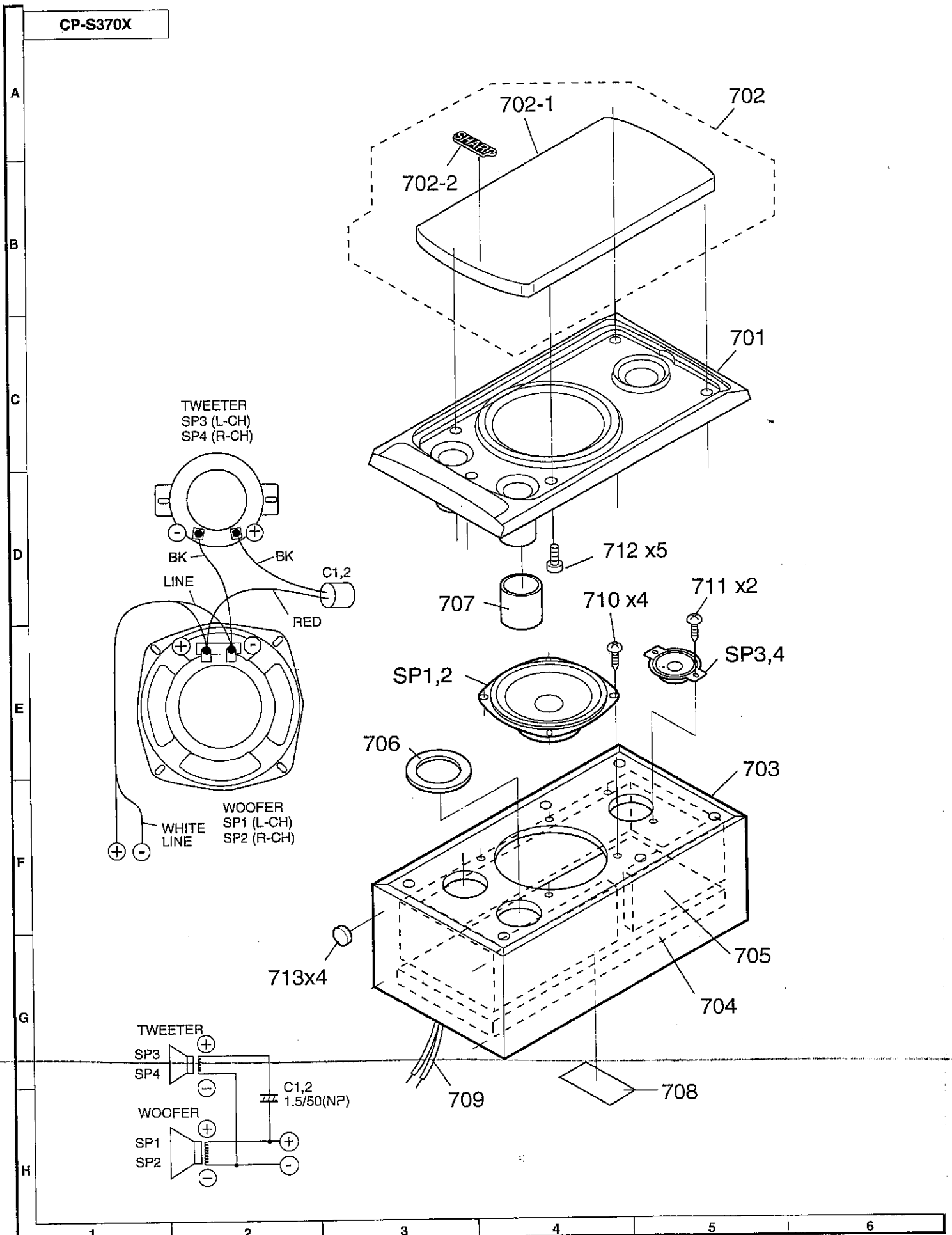


Figure 49 SPEAKER BOX EXPLODED VIEW

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

★MARK: SPARE PARTS-DELIVERY SECTION

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

CD-S370X

INTEGRATED CIRCUITS

REF.NO.	PART NO.	★	DESCRIPTION	CODE
IC1	VHiLA9211M/-1	J	Servo Amp.,LA9211M	A Q
IC2	VHiLC7868E/-1	J	Servo/Signal Control, LC7868E	B C
IC3	VHiLC78815/-1	J	D/A Converter,LC78815	A R
IC4	92LiCiX2139	J	CD Control Microcomputer, IX2139AF	A X
IC6	VHiPST600D/-1	J	Reset,PST600D	A D
IC7	VHiLA6524//-1	J	Tracking/Focus Motor Driver,LA6524	A H
IC8	VHiTA7291S/-1	J	Loading Motor Driver, TA7291S	A G
IC9	VHiAN78L05/-1	J	Constant Voltage Regulator,AN78L05	A E
IC101	VHiAN7345K/-1	J	Playback and Record/ Playback Amp.,AN7345K	A M
IC201	VHiTC9216P/-1	J	PLL,TC9216P	A L
IC202	VHiLA1266A/-1	J	FM IF Det. and IF,LA1266A	A K
IC203	VHiTA7343P/-1	J	PLL FM MPX.,TA7343AP	A G
IC401	VHiTC4052BP-1	J	Function Selector,TC4052BP	A F
IC403	VHiBA4558//-1	J	Line Amp.,BA4558	A D
IC501	VHiBA4558N/-1	J	Graphic Equalizer Amp., BA4558N	A C
IC601	VHiSTK4132M-1	J	Power Amp.,STK4132II	A W
IC701	92LiCiX2249	J	Tuner/System Control, IX2249AF	A Y
IC702	VHiPST600D/-1	J	Reset,PST600D	A D
IC703	92LiCTA7291S	J	Volume Driver,TA7291S	A G
IC801	VHiBA4558N/-1	J	Ope Amp.,BA4558N	A C
IC806	VHiBA4558N/-1	J	Mix.Amp.,BA4558N	A C

TRANSISTORS

Q1	VSRN1207///-1	J	Digital,NPN,RN1207	A B
Q2	VS2SA1015GR-1	J	Silicon,PNP,2SA1015 GR	A B
Q4	92LRN2204T	J	Digital,PNP,RN2204	A B
Q5	VS2SC2001-L-1	J	Silicon,NPN,2SC2001 L	A B
Q6	VS2SA1015GR-1	J	Silicon,PNP,2SA1015 GR	A B
Q7,8	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q9	92LRN2204T	J	Digital,PNP,RN2204	A B
Q101,102	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q103	VSRN1204///-1	J	Digital,NPN,RN1204	A B
Q106	VS2SC2001-K-1	J	Silicon,NPN,2SC2001 K	A D
Q109	VS2SA1015GR-1	J	Silicon,PNP,2SA1015 GR	A B
Q110,111	VSRN1204///-1	J	Digital,NPN,RN1204	A B
Q112,113	92LRN2204T	J	Digital,PNP,RN2204	A B
Q202	VS2SC380-O/-1	J	Silicon,NPN,2SC380 O	A C
Q216,217	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q221	VS2SA1015GR-1	J	Silicon,PNP,2SA1015 GR	A B
Q225	VSRN1204///-1	J	Digital,NPN,RN1204	A B
Q226	VSRN2209///-1	J	Digital,PNP,RN2209	A C
Q227	VS2SA1015GR-1	J	Silicon,PNP,2SA1015 GR	A B
Q229,230	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q233	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q401~403	VSRN1204///-1	J	Digital,NPN,RN1204	A B
Q501,502	VS2SJ103GR/-1	J	FET,2SJ103 GR	A C
Q503	92LRN2204T	J	Digital,PNP,RN2204	A B
Q601~603	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q604	VSRN1207///-1	J	Digital,NPN,RN1207	A B
Q651	92L2SD2012	J	Silicon,NPN,2SD2012	A E
Q652	92L2SB1375Y	J	Silicon,PNP,2SB1375 Y	A E
Q653	VSRN2202///-1	J	Digital,PNP,RN2202	A B
Q654	VSRN1207///-1	J	Digital,NPN,RN1207	A B
Q655	VSRN2202///-1	J	Digital,PNP,RN2202	A B
Q656	VSRN1207///-1	J	Digital,NPN,RN1207	A B
Q657	VS2SC2001-L-1	J	Silicon,NPN,2SC2001 L	A B
Q658,659	92L2SD2012	J	Silicon,NPN,2SD2012	A E
Q660	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q661	VSRN2202///-1	J	Digital,PNP,RN2202	A B
Q662	VSRN1207///-1	J	Digital,NPN,RN1207	A B
Q681	VS2SD1764//-1	J	Silicon,NPN,2SD1764	A H
Q682	92L2SB1287	J	Silicon,PNP,2SB1287	A F
Q683	VSRN2202///-1	J	Digital,PNP,RN2202	A B
Q684	VSRN1207///-1	J	Digital,NPN,RN1207	A B
Q685	VSRN2202///-1	J	Digital,PNP,RN2202	A B
Q686	VSRN1207///-1	J	Digital,NPN,RN1207	A B
Q701,702	VSRN1204///-1	J	Digital,NPN,RN1204	A B
Q703	VS2SA1015GR-1	J	Silicon,PNP,2SA1015 GR	A B
Q704	VSRN2202///-1	J	Digital,PNP,RN2202	A B
Q705	VSRN1202///-1	J	Digital,NPN,RN1202	A B
Q708,709	VSRN1204///-1	J	Digital,NPN,RN1204	A B
Q801	VS2SC2458GR-1	J	Silicon,NPN,2SC2458 GR	A B
Q802	VSRN2202///-1	J	Digital,PNP,RN2202	A B

DIODES

D1	VHD1SS133//-1	J	Silicon,1SS133	A A
D101~110	VHD1SS133//-1	J	Silicon,1SS133	A A
D112~118	VHD1SS133//-1	J	Silicon,1SS133	A A
D201,202	VHD1SS133//-1	J	Silicon,1SS133	A A
D204,205	VHD1SS133//-1	J	Silicon,1SS133	A A
D217~220	VHD1SS133//-1	J	Silicon,1SS133	A A
D401	VHD1SS133//-1	J	Silicon,1SS133	A A
D451,452	VHD1SS133//-1	J	Silicon,1SS133	A A
D501,502	VHD1SS133//-1	J	Silicon,1SS133	A A
⚠D601~608	VHD10E-4FD/-1	J	Silicon,10E4	A B
⚠D609	VHDS4VB20//-1	J	Rectifier,S4VB20	A G
D610~612	VHD1SS133//-1	J	Silicon,1SS133	A A
D702	VHD1SS133//-1	J	Silicon,1SS133	A A
D715~717	VHD1SS133//-1	J	Silicon,1SS133	A A
D720~722	VHD1SS133//-1	J	Silicon,1SS133	A A
LED701	92LLED3N4HDN33	J	LED,Red,3N4HDN33	A C
VD202	VHCKV1236Z23F	J	Variable Capacitance, KV1236Z23F	A S
ZD2,3	VHEMTZJ5R6B-1	J	Zener,5.6V,MTZJ5.6B	A D
ZD201	VHEMTZJ5R1B-1	J	Zener,5.1V,MTZJ5.1B	A C
ZD401,402	VHEMTZJ6R2A-1	J	Zener,6.2V,MTZJ6.2A	A A
ZD651,652	VHEMTZJ160A-1	J	Zener,16V,MTZJ16A	A A

REF.NO.	PART NO.	★	DESCRIPTION	CODE
ZD653	VHEMTZJ6R2B-1	J	Zener,6.2V,MTZJ6.2B	A C
ZD654	VHEMTZJ130C-1	J	Zener,13V,MTZJ13C	A B
ZD681,682	VHEMTZJ9R1A-1	J	Zener,9.1V,MTZJ9.1A	A A
FILTERS				
CF201,202	RFiLF0072AFZZ	J	FM IF	A G
TRANSFORMERS				
T203	RCiLA1064AFZZ	J	AM Antenna	A D
T207	RCiLB1074AFZZ	J	OSC,AM	A C
T209	RFiLA0178AFZZ	J	AM IF	A F
T210	RCiLD0117AFZZ	J	FM Detector	A D
⚠T601	92LPT-1617A	J	Power	B G
COILS				
L1~4	VP-DH2R2M0000	J	2.2 μH,Choke	A B
L101,102	VP-MK182K0000	J	1.8 mH,Choke	A C
L105	VP-MK102K0000	J	1 mH,Choke	A B
L106	VP-MK331K0000	J	330 μH,Choke	A B
L107	VP-MK151K0000	J	150 μH,Choke	A B
L202	VP-DH2R2M0000	J	2.2 μH,Choke	A B
L207	VP-DH101K0000	J	100 μH,Choke	A B
L212	VP-DHR22K0000	J	0.22 μH	A B
L215	VP-DH2R2M0000	J	2.2 μH,Choke	A B
L701~703	VP-CH101K0000	J	100 μH,Choke	A B
L704,705	VP-DH101K0000	J	100 μH,Choke	A B
VARIABLE RESISTORS				
VR1	RVR-M0998AFZZ	J	6.8 kohms (B),Semi-VR [Tracking Error Balance]	A B
VR2	RVR-M0997AFZZ	J	5 kohms (B),Semi-VR [Tracking Gain]	A B
VR3	RVR-M0999AFZZ	J	10 kohm (B),Semi-VR [Focus Gain]	A B
VR101	RVR-M0583AFZZ	J	3.3 kohms (B),Semi-VR [Tape Speed]	A B
VR202	RVR-M1003AFZZ	J	47 kohms (B),Semi-VR [FM Auto Stop Level]	A B
VR203	RVR-M0999AFZZ	J	10 kohm (B),Semi-VR [VCO]	A B
VR501~505	92LVRS1750A	J	100 kohm (B) [GRAPHIC EQUALIZER]	A E
VR506	92LVRR1663A	J	50 kohms (W) [BALANCE]	A G
VR507	92LVRM1663A	J	100 kohm (B)×2 [MAIN VOLUME WITH MOTOR]	A X
VR801	92LVRR1674A	J	20 kohms (B) [MIC]	A F
VARIABLE CAPACITOR				
TC203	RTG-H1165AFZZ	J	Trimmer,20 pF	A C
VIBRATORS				
X201	92LCRSTL-1587B	J	Crystal,4.5 MHz	A K
XL1	RCRM-0094AFZZ	J	Ceramic,4.19 MHz	A D
XL2	92LCRSTL1746AT	J	Crystal,16.93 MHz	A H
XL701	RCRM-0094AFZZ	J	Ceramic,4.19 MHz	A D

CAPACITORS

There are two types of capacitors available and they can be identified fr other by reading their Part Numbers.

- Ceramic type capacitor;
  A symbol "C" or "K" is given at the 3rd digit of its Part Number like ' K)·····J."
- Semiconductor type capacitor:
  A symbol "T" is given at the 3rd digit of its Part Number like "VCT

The capacitance error of each capacitor is indicated by the symbol giv 13th digit of the Part Number as follows:"J" (±5%), "K" (±10%), "M" "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).
(Tubular type ceramic capacitor is identified by the symbol TV(TQ/C part NO. VC00TV(TQ/CY)0000000; this TV(TQ/CY) does not mean the le
(Tubular type ceramic capacitor is identified by the symbol MF(MN) of NO. VC00MF(MN)0000000; this MF(MN) does not mean the lead wire.)
Unless otherwise specified, electrolytic capacitors are ±20% type.

REF.NO.	PART NO.	★	DESCRIPTION
C1	VCTYMN1CY103N	J	0.01 μF,16V
C2	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
C3	VCTYMN1CX472K	J	0.0047 μF,16V
C4	VCCSMN1HL330J	J	33 pF,50V
C5	VCTYPU1CX153K	J	0.015 μF,16V
C6	VCCSMN1HL330J	J	33 pF,50V
C7	VCTYMN1CY822M	J	0.0082 μF,16V
C8	RC-GZA224AF1H	J	0.22 μF,50V,Electrolytic
C9	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
C10	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
C11	RC-GZA104AF1H	J	0.1 μF,50V,Electrolytic
C12	VCTYPU1CX393K	J	0.039 μF,16V
C13	RC-GZA106AF1H	J	10 μF,50V,Electrolytic
C14	RC-GZA104AF1H	J	0.1 μF,50V,Electrolytic
C15	VCKYMN1HB221K	J	220 pF,50V
C16	RC-GZA474AF1H	J	0.47 μF,50V,Electrolytic
C17	VCKYMN1HB102K	J	0.001 μF,50V
C18	VCTYMN0JY223N	J	0.022 μF,6.3V
C19	VCTYPU1CX333K	J	0.033 μF,16V
C20	VCTYMN1CY103N	J	0.01 μF,16V
C21	VCKYMN1HB221K	J	220 pF,50V
C22	VCTYPU1CX104K	J	0.1 μF,16V
C23	VCTYMN1CY103N	J	0.01 μF,16V
C24	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
C25	VCTYMN1CX272K	J	0.0027 μF,16V
C26	VCTYMN1CX152K	J	0.0015 μF,16V
C27	RC-GZA475AF1H	J	4.7 μF,50V,Electrolytic
C28	VCCSMN1HL1R0C	J	1 pF,50V
C29	VCCSMN1HL180J	J	18 pF,50V
C30	VCTYMN1CY103N	J	0.01 μF,16V
C31,32	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
C33	VCTYMN1CX272K	J	0.0027 μF,16V
C34	VCKYMN1HB471K	J	470 pF,50V
C35~38	VCTYMN1EF223Z	J	0.022 μF,25V
C39,40	RC-GZA107AF1A	J	100 μF,10V,Electrolytic
C51	VCKYMN1HB102K	J	0.001 μF,50V
C52	VCKYMN1HB331K	J	330 pF,50V
C53	VCTYPU1CX333K	J	0.033 μF,16V
C54	VCTYPU1CX104K	J	0.1 μF,16V
C65,66	VCTYMN1EF223Z	J	0.022 μF,25V
C67	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
C68	VCTYMN1CY103N	J	0.01 μF,16V
C71	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
C73,74	RC-GZA227AF1C	J	220 μF,16V,Electrolytic
C75,76	RC-GZA107AF1A	J	100 μF,10V,Electrolytic
C77	RC-GZA337AF0J	J	330 μF,6.3V,Electrolytic
C78	RC-GZA107AF1A	J	100 μF,10V,Electrolytic
C79	RC-GZA225AF1H	J	2.2 μF,50V,Electrolytic
C80	VCTYMN0JY223N	J	0.022 μF,6.3V
C81	VCTYMN1CY103N	J	0.01 μF,16V
C82	RC-GZA106AF1H	J	10 μF,50V,Electrolytic

CODE	REF.NO.	PART NO.	★	DESCRIPTION
	C83,84	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
	C85	VCKZPA1HF223Z	J	0.022 μF,50V
	C86	VCTYBT1EF223Z	J	0.022 μF,25V
	C91,92	RC-GZA475AF1H	J	4.7 μF,50V,Electrolytic
	C93,94	VCKYMN1HB102K	J	0.001 μF,50V
	C101,102	VCKYMN1HB471K	J	470 pF,50V
	C103,104	VCKYMN1HB181K	J	180 pF,50V
	C105,106	VCKYMN1HB471K	J	470 pF,50V
	C113,114	VCKYMN1HB331K	J	330 pF,50V
	C115,116	VCKYMN1HB331K	J	330 pF,50V
	C117,118	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
	C119,120	VCTYPU1EX333K	J	0.033 μF,25V
	C121,122	VCKYMN1HB561K	J	560 pF,50V
	C123,124	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
	C125,126	VCKYMN1CY123M	J	0.012 μF,16V
	C127,128	VCTYMN1CY103K	J	0.01 μF,16V
	C129	RC-GZA335AF1E	J	3.3 μF,25V,Electrolytic
	C131,132	VCKYMN1HB102K	J	0.001 μF,50V
	C133,134	RC-GZA226AF1C	J	22 μF,16V,Electrolytic
A	C135,136	VCTYPU1EX563K	J	0.056 μF,25V
B	C137,138	VCTYMN1CX332K	J	0.0033 μF,16V
A	C139,140	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
A	C141	RC-GZA226AF1C	J	22 μF,16V,Electrolytic
B	C142	VCTYPU1EX823K	J	0.082 μF,25V
A	C143	RC-GZA227AF1A	J	220 μF,10V,Electrolytic
A	C144	RC-GZA107AF1C	J	100 μF,16V,Electrolytic
A	C145,146	VCKYMN1HB471K	J	470 pF,50V
B	C151	RC-GZA476AF1A	J	47 μF,10V,Electrolytic
B	C152	VCQPKA2AA392J	J	0.0039 μF,100V, Polypropylene
B				
A	C153	RC-QZA273AFYJ	J	0.027 μF,50V,Mylar
B	C160	RC-GZA476AF1C	J	47 μF,16V,Electrolytic
B	C161,162	RC-GZA225AF1H	J	2.2 μF,50V,Electrolytic
A	C171	VCTYMN1EF223Z	J	0.022 μF,25V
A	C172	RC-GZA226AF1C	J	22 μF,16V,Electrolytic
A	C201	VCKYMN1HB102K	J	0.001 μF,50V
A	C202	VCTYMN1EF223Z	J	0.022 μF,25V
A	C208～211	VCTYMN1EF223Z	J	0.022 μF,25V
A	C223	VCKZPU1HF473Z	J	0.047 μF,50V
A	C233	VCCUMN1HJ220J	J	22 pF (UJ),50V
A	C234	VCCCMN1HH180J	J	18 pF (CH),50V
A	C235	VCKYMN1HB471K	J	470 pF,50V
B	C241	VCTYMN1CY103K	J	0.01 μF,16V
A	C243	RC-GZA476AF1C	J	47 μF,16V,Electrolytic
A	C246	VCTYMN1EF223Z	J	0.022 μF,25V
B	C247	RC-GZA225AF1H	J	2.2 μF,50V,Electrolytic
A	C248	VCKYMN1HB102K	J	0.001 μF,50V
A	C250	RC-GZA476AF1C	J	47 μF,16V,Electrolytic
A	C251	VCTYMN1EF223Z	J	0.022 μF,25V
B	C252	VCCCMN1HH120J	J	12 pF (CH),50V
A	C253	VCCCMN1HH150J	J	15 pF (CH),50V
A	C254	RC-GZA107AF1A	J	100 μF,10V,Electrolytic
A	C258～260	VCTYMN1EF223Z	J	0.022 μF,25V
B	C261	RC-GZA107AF1C	J	100 μF,16V,Electrolytic
A	C262,263	VCTYMN1EF223Z	J	0.022 μF,25V
A	C264	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
A	C266	VCTYMN1EF223Z	J	0.022 μF,25V
A	C267	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
A	C268	VCKYMN1HB331K	J	330 pF,50V
B	C269	VCKYMN1HB102K	J	0.001 μF,50V
A	C270	VCKYMN1HB151K	J	150 pF,50V
B	C271,272	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
B	C273	VCTYMN1EF223Z	J	0.022 μF,25V
B	C274	RC-GZA106AF1H	J	10 μF,50V,Electrolytic
B	C275	VCTYMN1EF223Z	J	0.022 μF,25V
B	C276	RC-GZA475AF1E	J	4.7 μF,25V,Electrolytic
B	C277	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
A	C278	RC-GZA475AF1E	J	4.7 μF,25V,Electrolytic
A	C279	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
B	C280	VCTYMN1EF223Z	J	0.022 μF,25V
B	C281	VCTYMN0JY223N	J	0.022 μF,6.3V
A	C282	RC-GZA334AF1H	J	0.33 μF,50V,Electrolytic
A	C283	RC-GZA475AF1E	J	4.7 μF,25V,Electrolytic
B	C285	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
A	C286	RC-GZA335AF1H	J	3.3 μF,50V,Electrolytic
A	C287	VCQSMV1HL102J	J	0.001 μF,50V,Styrol
A	C288	RC-GZA227AF1C	J	220 μF,16V,Electrolytic
A	C290	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
A	C291	RC-GZA106AF1H	J	10 μF,50V,Electrolytic
A	C292	VCTYMN1EF223Z	J	0.022 μF,25V
B	C293,294	VCTYPU1EX273K	J	0.027 μF,25V
B	C295,296	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
A	C299	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
B	C302	VCCSMN1HL220J	J	22 pF,50V
A	C305	VCTYMN1EF223Z	J	0.022 μF,25V
A	C312	RC-GZA337AF1C	J	330 μF,16V,Electrolytic
B	C313	VCTYMN1EF223Z	J	0.022 μF,25V
A	C315	VCKYMN1HB221K	J	220 pF,50V
B	C317	VCTYMN1EF223Z	J	0.022 μF,25V
B	C411,412	VCTYMN1EF223Z	J	0.022 μF,25V
A	C413,414	VCKYMN1HB471K	J	470 pF,50V
B	C417,418	RC-GZA476AF1E	J	47 μF,25V,Electrolytic
B	C421,422	VCKYMN1HB471K	J	470 pF,50V
B	C423	VCKYMN1HB102K	J	0.001 μF,50V
B	C424	VCTYMN1EF223Z	J	0.022 μF,25V
B	C443,444	VCKYMN1HB151K	J	150 pF,50V
A	C445,446	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
B	C451	RC-GZV228AF0J	J	2200 μF,6.3V,Electrolytic
B	C501,502	VCTYMN1CX392K	J	0.0039 μF,16V
	C503,504	VCTYMN1CY822K	J	0.0082 μF,16V
B	C505,506	VCTYMN1CX122K	J	0.0012 μF,16V
B	C507,508	VCTYMN0JY153M	J	0.015 μF,6.3V
B	C509,510	VCTYMN1CX392K	J	0.0039 μF,16V
A	C511～514	VCTYMN0JY183M	J	0.018 μF,6.3V
B	C515,516	VCTYMN0JY153M	J	0.015 μF,6.3V
A	C517,518	VCFYDA1HA683J	J	0.068 μF,50V,Polyester
A	C519～522	VCTYMN0JY183M	J	0.018 μF,6.3V
A	C523,524	VCFYDA1HA104J	J	0.1 μF,50V,Polyester
A	C525～528	VCTYMN0JY183M	J	0.018 μF,6.3V
A	C529,530	VCCSMN1HL220J	J	22 pF,50V
A	C531,532	VCKYMN1HB151K	J	150 pF,50V
A	C533,534	RC-EZY475AF1E	J	4.7 μF,25V,Electrolytic
A	C535,536	VCTYMN1EF223Z	J	0.022 μF,25V
B	C537,538	RC-EZY476AF1E	J	47 μF,25V,Electrolytic
A	C539,540	VCKYMN1HB102K	J	0.001 μF,50V
B	C541	RC-EZY225AF1H	J	2.2 μF,50V,Electrolytic
A	C601,602	RC-GZA105AF1H	J	1 μF,50V,Electrolytic
B	C603～606	VCKYMN1HB331K	J	330 pF,50V
A	C607,608	VCCSMN1HL150J	J	15 pF,50V
A	C609,610	RC-GZA476AF1V	J	47 μF,35V,Electrolytic
A	C611～614	RC-QZA104AFYK	J	0.1 μF,50V,Mylar
B	C615,616	RC-GZA107AF1V	J	100 μF,35V,Electrolytic
A	C617	RC-GZA476AF1V	J	47 μF,35V,Electrolytic
B	C618	RC-GZA106AF1H	J	10 μF,50V,Electrolytic
A	C619	RC-GZA476AF1V	J	47 μF,35V,Electrolytic
B	C620	RC-GZA107AF1V	J	100 μF,35V,Electrolytic
A	C646	RC-GZA476AF1C	J	47 μF,16V,Electrolytic
B	C649,650	RC-GZA335AF1H	J	3.3 μF,50V,Electrolytic
A	C651,652	RC-GZW228AF1V	J	2200 μF,35V,Electrolytic
A	C653,654	VCKZPU1HF223Z	J	0.022 μF,50V
A	C655,656	RC-GZA227AF1V	J	220 μF,35V,Electrolytic
B	C657	VCTYMN1EF223Z	J	0.022 μF,25V
A	C658	RC-GZA476AF1E	J	47 μF,25V,Electrolytic
B	C659,660	RC-GZA106AF1H	J	10 μF,50V,Electrolytic
A	C662	RC-GZA106AF1H	J	10 μF,50V,Electrolytic
B	C663	RC-GZW338AF1E	J	3300 μF,25V,Electrolytic
B	C665～667	VCKZPU1HF473Z	J	0.047 μF,50V
B	C669,670	VCKZPU1HF473Z	J	0.047 μF,50V
B	⚠C671	RC-FZ109EAFZZ	J	0.047 μF,250V,Ceramic
A	C681	RC-GZW338AF1E	J	3300 μF,25V,Electrolytic

REF.NO.	PART NO.	★	DESCRIPTION	CODE
C682	RC-GZV108AF1E	J	1000 μF,25V,Electrolytic	A D
C683,684	RC-GZA106AF1C	J	10 μF,16V,Electrolytic	A B
C685,686	RC-GZA336AF1C	J	33 μF,16V,Electrolytic	A B
C687	VCTYBT1EF223Z	J	0.022 μF,25V	A A
C710	RC-GZA335AF1H	J	3.3 μF,50V,Electrolytic	A B
C711,712	VCTYMN1CY103K	J	0.01 μF,16V	A A
C713	RC-GZA476AF1A	J	47 μF,10V,Electrolytic	A B
C717	VCTYMN1CY103K	J	0.01 μF,16V	A A
C722	VCTYPU1CX104J	J	0.1 μF,16V	A A
C723	RC-GZA476AF1E	J	47 μF,25V,Electrolytic	A B
C726	VCTYMN1EF223Z	J	0.022 μF,25V	A A
C727	VCKYMN1HB561K	J	560 pF,50V	A A
C728	VCKYMN1HB331K	J	330 pF,50V	A A
C729	VCTYPU1CX104J	J	0.1 μF,16V	A A
C730	VCTYPU1CX223J	J	0.022 μF,16V	A A
C801	VCKYMN1HB102K	J	0.001 μF,50V	A A
C803	RC-GZA105AF1H	J	1 μF,50V,Electrolytic	A B
C805	VCKYMN1HB101K	J	100 pF,50V	A A
C809	RC-GZA155AF1H	J	1.5 μF,50V,Electrolytic	A A
C810	VCKYMN1HB102K	J	0.001 μF,50V	A A
C811～813	RC-GZA105AF1H	J	1 μF,50V,Electrolytic	A B
C843,844	RC-GZA476AF1E	J	47 μF,25V,Electrolytic	A B
C883～886	RC-GZA476AF1C	J	47 μF,16V,Electrolytic	A B

RESISTORS

(Unless otherwise specified, resistors are ±5%,carbon type.) (Tubular type carbon film resistor ±5% is identified the symbol TV(TQ/CY) of the part NO. VRS—TV(TQ/CY)0000000; this TV(TQ/CY) does not mean lead wire.)
(Tubular type carbon film resistor ±5% is identified the symbol MF(MN) of the part NO. VRD—MF(MN)0000000; this MF(MN) does not mean lead wire.)

	VRD-MN2BD000C	J	0 ohm,Jumper,φ1.4×3.5mm, Ivory	A A
R1	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R2	VRD-MN2BD822J	J	8.2 kohms,1/8W	A A
R3	VRD-MN2BD152J	J	1.5 kohms,1/8W	A A
R7	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R8	VRD-MN2BD564J	J	560 kohms,1/8W	A A
R9	VRD-MN2BD334J	J	330 kohms,1/8W	A A
R10	VRD-MN2BD563J	J	56 kohms,1/8W	A A
R11	VRD-MN2BD823J	J	82 kohms,1/8W	A A
R12	VRD-MN2BD822J	J	8.2 kohms,1/8W	A A
R13,14	VRD-MN2BD124J	J	120 kohms,1/8W	A A
R15	VRD-MN2BD223J	J	22 kohms,1/8W	A A
R16	VRD-MN2BD681J	J	680 ohms,1/8W	A A
R17	VRD-MN2BD684J	J	680 kohms,1/8W	A A
R18	VRD-ST2CD683J	J	68 kohms,1/6W	A A
R19,20	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R21	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R22	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R23	VRD-MN2BD393J	J	39 kohms,1/8W	A A
R24	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R25	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R26	VRD-MN2BD334J	J	330 kohms,1/8W	A A
R27	VRD-MN2BD394J	J	390 kohms,1/8W	A A
R29	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R30	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R31	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R32	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R33	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R34	VRD-MN2BD333J	J	33 kohms,1/8W	A A
R35	VRD-MN2BD184J	J	180 kohms,1/8W	A A
R36	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R37	VRD-ST2CD393J	J	39 kohms,1/6W	A A
R38	VRD-ST2CD333J	J	33 kohms,1/6W	A A
R39	VRD-MN2BD471J	J	470 ohms,1/8W	A A
R40	VRD-MN2BD393J	J	39 kohms,1/8W	A A
R41	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R42	VRD-MN2BD822J	J	8.2 kohms,1/8W	A A
R43	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R44～47	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R51	VRD-MN2BD204J	J	200 kohms,1/8W	A A
R52	VRD-MN2BD153J	J	15 kohms,1/8W	A A
R53	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R54	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R57	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R58	VRD-ST2CD473J	J	47 kohms,1/6W	A A
R59～63	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R64	VRD-MN2BD821J	J	820 ohms,1/8W	A A
R65	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R66	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R67	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R68	VRD-MN2BD182J	J	1.8 kohms,1/8W	A A
R69	VRD-MN2BD153J	J	15 kohms,1/8W	A A
R70	VRD-ST2CD152J	J	1.5 kohms,1/6W	A A
R71	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R72,73	VRD-MN2BD223J	J	22 kohms,1/8W	A A
R74	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R75～77	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R78～81	VRD-ST2CD182J	J	1.8 kohms,1/6W	A A
R82	VRD-MN2BD152J	J	1.5 kohms,1/8W	A A
R83～85	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R86	VRD-ST2CD182J	J	1.8 kohms,1/6W	A A
R87,88	VRD-ST2EE820J	J	82 ohms,1/4W	A A
R91～94	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R95,96	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R97,98	VRD-MN2BD220J	J	22 ohms,1/8W	A A
R99	VRD-ST2CD182J	J	1.8 kohms,1/6W	A A
R101～104	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R105,106	VRD-MN2BD560J	J	56 ohms,1/8W	A A
R107,108	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R109,110	VRD-MN2BD392J	J	3.9 kohms,1/8W	A A
R115,116	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R119	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R120	VRD-ST2CD562J	J	5.6 kohms,1/6W	A A
R121,122	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R123,124	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R125,126	VRD-MN2BD561J	J	560 ohms,1/8W	A A
R127,128	VRD-MN2BD101J	J	100 ohm,1/8W	A A
R129～132	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R133	VRD-MN2BD105J	J	1 Mohm,1/8W	A A
R134	VRD-ST2EE471J	J	470 ohms,1/4W	A A
R135,136	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R137,138	VRD-MN2BD273J	J	27 kohms,1/8W	A A
R139～141	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R142	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R146	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R147,148	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R149,150	VRD-ST2CD103J	J	10 kohm,1/6W	A A
R151,152	VRD-ST2EE270J	J	27 ohms,1/4W	A A
R153	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R154	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R155	VRD-MN2BD220J	J	22 ohms,1/8W	A A
R158	VRD-ST2CD223J	J	22 kohms,1/6W	A A
R159	VRD-MN2BD683J	J	68 kohms,1/8W	A A
R160	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R161	VRD-MN2BD272J	J	2.7 kohms,1/8W	A A
R162,163	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R164	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R165	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R166	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R167	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R168	VRD-MN2BD333J	J	33 kohms,1/8W	A A
R170	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R179	VRD-ST2CD562J	J	5.6 kohms,1/6W	A A
R180	VRD-ST2CD103J	J	10 kohm,1/6W	A A
R204	VRD-MN2BD681J	J	680 ohms,1/8W	A A
R205	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R207	VRD-MN2BD331J	J	330 ohms,1/8W	A A

REF.NO.	PART NO.	★	DESCRIPTION	CODE
R208	VRD-MN2BD270J	J	27 ohms,1/8W	A A
R210	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R219	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R232	VRD-MN2BD683J	J	68 kohms,1/8W	A A
R237	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R239	VRD-ST2EE151J	J	150 ohms,1/4W	A A
R244	VRD-MN2BD153J	J	15 kohms,1/8W	A A
R245	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R246	VRD-ST2CD472J	J	4.7 kohms,1/6W	A A
R247	VRD-MN2BD122J	J	1.2 kohms,1/8W	A A
R248	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R252	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R253	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R257,258	VRD-ST2EE471J	J	470 ohms,1/4W	A A
R259	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R260	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R261	VRD-MN2BD123J	J	12 kohms,1/8W	A A
R264	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R265	VRD-ST2CD222J	J	2.2 kohms,1/6W	A A
R266	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R267	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R268	VRD-MN2BD683J	J	68 kohms,1/8W	A A
R269	VRD-MN2BD223J	J	22 kohms,1/8W	A A
R270	VRD-MN2BD683J	J	68 kohms,1/8W	A A
R271	VRD-MN2BD123J	J	12 kohms,1/8W	A A
R273	VRD-MN2BD683J	J	68 kohms,1/8W	A A
R274	VRD-ST2EE151J	J	150 ohms,1/4W	A A
R275	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R276	VRD-MN2BD272J	J	2.7 kohms,1/8W	A A
R277	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R278	VRD-MN2BD680J	J	68 ohms,1/8W	A A
R279	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R280	VRD-MN2BD223J	J	22 kohms,1/8W	A A
R281	VRD-MN2BD563J	J	56 kohms,1/8W	A A
R282	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R283	VRD-ST2EE391J	J	390 ohms,1/4W	A A
R284	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R285	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R286	VRD-MN2BD224J	J	220 kohms,1/8W	A A
R287,288	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R289	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R290	VRD-ST2CD103J	J	10 kohm,1/6W	A A
R294	VRD-MN2BD152J	J	1.5 kohms,1/8W	A A
R295	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R296,297	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R298,299	VRD-MN2BD152J	J	1.5 kohms,1/8W	A A
R300,301	VRD-ST2CD153J	J	15 kohms,1/6W	A A
R302	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R303	VRD-MN2BD333J	J	33 kohms,1/8W	A A
R305	VRD-MN2BD223J	J	22 kohms,1/8W	A A
R306	VRD-ST2CD223J	J	22 kohms,1/6W	A A
R310	VRD-MN2BD560J	J	56 ohms,1/8W	A A
R316~318	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R401~403	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R411,412	VRD-ST2EE102J	J	1 kohm,1/4W	A A
R421	VRD-ST2CD473J	J	47 kohms,1/6W	A A
R422	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R425,426	VRD-MN2BD182J	J	1.8 kohms,1/8W	A A
R441,442	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R443,444	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R445,446	VRD-MN2BD822J	J	8.2 kohms,1/8W	A A
R451	VRD-MN2BD471J	J	470 ohms,1/8W	A A
R452	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R453	VRD-MN2BD151J	J	150 ohms,1/8W	A A
R461,462	VRD-ST2CD123J	J	12 kohms,1/6W	A A
R463,464	VRD-MN2BD182J	J	1.8 kohms,1/8W	A A
R471,472	VRD-MN2BD563J	J	56 kohms,1/8W	A A
R501~504	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R505,506	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R507,508	VRD-MN2BD122J	J	1.2 kohms,1/8W	A A
R509~512	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R513,514	VRD-MN2BD392J	J	3.9 kohms,1/8W	A A
R515~518	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R519,520	VRD-MN2BD123J	J	12 kohms,1/8W	A A
R521~524	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R525,526	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R527~530	VRD-MN2BD682J	J	6.8 kohms,1/8W	A A
R533	VRD-ST2CD333J	J	33 kohms,1/6W	A A
R534	VRD-MN2BD333J	J	33 kohms,1/8W	A A
R535,536	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R537,538	VRD-MN2BD823J	J	82 kohms,1/8W	A A
R539,540	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R541,542	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R543,544	VRD-MN2BD564J	J	560 kohms,1/8W	A A
R545,546	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R547,548	VRD-ST2EE331J	J	330 ohms,1/4W	A A
R549	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R550	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R601,602	VRD-MN2BD562J	J	5.6 kohms,1/8W	A A
R603,604	VRD-MN2BD563J	J	56 kohms,1/8W	A A
R605,606	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R607	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R608	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R609,610	VRD-MN2BD563J	J	56 kohms,1/8W	A A
R611	VRD-ST2CD561J	J	560 ohms,1/6W	A A
R612	VRD-MN2BD561J	J	560 ohms,1/8W	A A
R613	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R614	VRD-MN2BD154J	J	150 kohms,1/8W	A A
R615	VRD-ST2EE222J	J	2.2 kohms,1/4W	A A
R616,617	VRD-RT2HD102J	J	1 kohm,1/2W	A A
R618	VRD-MN2BD224J	J	220 kohms,1/8W	A A
R619,620	VRD-ST2EE222J	J	2.2 kohms,1/4W	A A
⚠R621	VRG-ST2EC101J	J	100 ohm,1/4W,Fusible	A B
R622	VRD-ST2EE222J	J	2.2 kohms,1/4W	A A
R623	VRD-ST2CD393J	J	39 kohms,1/6W	A A
⚠R624	VRG-ST2EC101J	J	100 ohm,1/4W,Fusible	A B
R625,626	VRD-ST2EE4R7J	J	4.7 ohms,1/4W	A A
R627	VRD-MN2BD221J	J	220 ohms,1/8W	A A
R628	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R629	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R630	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R635,636	VRD-RT2HD331J	J	330 ohms,1/2W	A A
R641,642	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R651,652	VRD-ST2EE332J	J	3.3 kohms,1/4W	A A
R653,654	VRD-ST2EE272J	J	2.7 kohms,1/4W	A A
⚠R657,658	VRG-ST2EF100J	J	10 ohm,1/4W,Fusible	A B
R665	VRD-ST2EE152J	J	1.5 kohms,1/4W	A A
⚠R666	VRG-ST2EF100J	J	10 ohm,1/4W,Fusible	A B
R668	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R669	VRD-ST2EE122J	J	1.2 kohms,1/4W	A A
R670	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R671	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R681,682	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R683,684	VRD-ST2EE221J	J	220 ohms,1/4W	A A
R685,686	VRD-ST2EE821J	J	820 ohms,1/4W	A A
R687~689	VRD-MN2BD333J	J	33 kohms,1/8W	A A
R691	VRD-MN2BD223J	J	22 kohms,1/8W	A A
R692	VRD-MN2BD683J	J	68 kohms,1/8W	A A
R693	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R701~707	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R708~710	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R712~715	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R716	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R717	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R718	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R719~721	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R722	VRD-ST2CD473J	J	47 kohms,1/6W	A A
R723	VRD-ST2CD104J	J	100 kohm,1/6W	A A
R727	VRD-ST2CD104J	J	100 kohm,1/6W	A A
R728~732	VRD-MN2BD102J	J	1 kohm,1/8W	A A

REF.NO.	PART NO.	★	DESCRIPTION	CODE
R733,734	VRD-MN2BD224J	J	220 kohms,1/8W	A A
R736	VRD-ST2CD102J	J	1 kohm,1/6W	A A
R737,738	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R739	VRD-MN2BD332J	J	3.3 kohms,1/8W	A A
R740	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R741	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R744	VRD-MN2BD681J	J	680 ohms,1/8W	A A
R750	VRD-MN2BD153J	J	15 kohms,1/8W	A A
R752	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R754	VRD-MN2BD821J	J	820 ohms,1/8W	A A
R760~763	VRD-MN2BD224J	J	220 kohms,1/8W	A A
R765	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R767	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R768	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R769,770	VRD-ST2CD122J	J	1.2 kohms,1/6W	A A
R801	VRD-MN2BD221J	J	220 ohms,1/8W	A A
R803	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R805	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R807	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R809	VRD-MN2BD561J	J	560 ohms,1/8W	A A
R811	VRD-MN2BD473J	J	47 kohms,1/8W	A A
R813	VRD-MN2BD222J	J	2.2 kohms,1/8W	A A
R814	VRD-MN2BD102J	J	1 kohm,1/8W	A A
R815	VRD-MN2BD472J	J	4.7 kohms,1/8W	A A
R816	VRD-MN2BD103J	J	10 kohm,1/8W	A A
R817	VRD-MN2BD104J	J	100 kohm,1/8W	A A
R827,828	VRD-ST2EE102J	J	1 kohm,1/4W	A A
R875,876	VRD-ST2EE102J	J	1 kohm,1/4W	A A
R877,878	VRD-MN2BD223J	J	22 kohms,1/8W	A A
R891,892	VRD-ST2CD223J	J	22 kohms,1/6W	A A
R893,894	VRD-ST2CD333J	J	33 kohms,1/6W	A A
R895,896	VRD-MN2BD223J	J	22 kohms,1/8W	A A

OTHER CIRCUITRY PARTS

BI3/CNS3	92LM-CONE1749C	J	Connector Ass'y,4-4Pin	A F
BI6/CNS6	92LCONW7T1753E	J	Connector Ass'y,8-7Pin	A G
BI7/CNS7	92LCONW6T1753B	J	Connector Ass'y,7-6Pin	A H
BI105/CNS105	92LCONWCT1754A	J	Connector Ass'y,13-12Pin	A L
BI601/CNS601	92LCONW5T1753F	J	Connector Ass'y,6-5Pin	A G
BI602/CNS602	92LCONW8T1753D	J	Connector Ass'y,9-8Pin	A K
BI706A/B	92LCONW7T1753G	J	Connector Ass'y,8P-8P	A K
BI707/CNS707	92LCONW3T1753H	J	Connector Ass'y,4-3P	A G
BI801/CNS801	92LCONW5T1755C	J	Connector Ass'y,6-5Pin	A H
CNP1	QCNCM908FAFZZ	J	Plug,6Pin	A B
CNP2	QCNCM687FAFZZ	J	Plug,6Pin	A B
CNP3	QCNCM687DAFZZ	J	Plug,4Pin	A A
CNP4	QCNCM742EAFZZ	J	Plug,5Pin	A B
CNP6	QCNCM687GAFZZ	J	Plug,7Pin	A B
CNP7	QCNCM742FAFZZ	J	Plug,6Pin	A B
CNP101	92LCONE3P53253	J	Plug,3Pin	A B
CNP102	92LCONE5P53253	J	Plug,5Pin	A B
CNP103	92LCONE4P53253	J	Plug,4Pin	A B
CNP104	92LCONE8P53253	J	Plug,8Pin	A C
CNP105	92LCONECP53253	J	Plug,12Pin	A D
CNP601	QCNCM742EAFZZ	J	Plug,5Pin	A B
CNP602	QCNCM742HAFZZ	J	Plug,8Pin	A B
CNP702	92LCONDPTKCUPB	J	Plug,13Pin	A G
CNP703,704	92LCON8PTKCUPB	J	Plug,8Pin	A E
CNP707	92LCONE3P53253	J	Plug,3Pin	A B
CNP801	92LCONE5P53253	J	Plug,5Pin	A B
CNS1A/B	92LM-CONE1749A	J	Connector Ass'y,6-6Pin	A L
CNS2A/B	92LM-CONE1749B	J	Connector Ass'y,6-6Pin	A G
CNS4	92LCONW5T1749B	J	Connector Ass'y,5Pin	A E
CNS101	92LMCONE1754G	J	Connector Ass'y,3Pin	A F
CNS102	92LM-CONE1746H	J	Connector Ass'y,5Pin	A H
CNS103	92LM-CONE1746F	J	Connector Ass'y,4Pin	A D
CNS104	92LMCONE1754E	J	Connector Ass'y,8Pin	A K
CNS702	92LCONDPTKCUXA	J	Connector,13Pin	A G
CNS703,704	92LCON8PTKCUXA	J	Connector,8Pin	A E

REF.NO.	PART NO.	★	DESCRIPTION	CODE
⚠F601	92LFUSE-T102-E	J	Fuse,T1A L 250V	A D
⚠F602,603	92LFUSE-T312-E	J	Fuse,T3.15A L 250V	A D
⚠F604	92LFUSE-T162-E	J	Fuse,T1.6A L 250V	A D
⚠F605,606	92LFUSE-T501-E	J	Fuse,T500mA L 250V	A D
FE201	92LTUNER1804A	J	FM Front End	A X
J601	92LJACKH1756A	J	Jack,Headphones	A E
J801	QJAKJ0133AFZZ	J	Jack,Mic	A F
J802	92LJACKM1674A	J	Jack,Mic 2	A L
LCD701	RV-LX0180AFZZ	J	LCD	A P
LMP701,702	RLMPM0242AFZZ	J	Lamp	A D
M3	92LMTR1749AS1	J	Motor with Pulley [Loading]	A S
M601	92LMTR1746AASY	J	Motor with Pulley [Tape]	A P
M701	92LMTR1651BASY	J	Motor with Gear [Slide]	A P
M702	92LMTR1746CASY	J	Motor with Chassis [Spin]	A T
RX701	VHLSPS4201/-1	J	Receiver,Remote Control, LSPS4201	A K
SO201	92LJACK-1585B	J	Terminal,Antenna	A G
SO401	92LJACKL1663A	J	Jack,Phono	A F
SO601	92LJACK-P1569A	J	Jack,Speaker	A F
SW1	QSW-P0920AFZZ	J	Switch,Push Type [Pickup In]	A C
SW2	92LSWiCHL1749A	J	Switch,Leaf/Skeleton Type [Loading]	A D
SW101	92LSWiCH-1596B	J	Switch,Slide Type [Record/Playback]	A G
SW201	92LSWiCH-414D	J	Switch,Slide Type [Span Select]	A D
SW401	QSW-K0064AFZZ	J	Switch,Push Type [RESET]	A C
⚠SW601	QSOCE0612AFZZ	J	Switch,Slide Type [Voltage Selector]	A K
SW605	QSW-F0340AFZZ	J	Switch,Leaf Type [Tape 1 Main]	A E
SW606	QSW-F0340AFZZ	J	Switch,Leaf Type [Tape 2 Main]	A E
SW607	92LM-SW1658A	J	Switch,Leaf Type [Tape 1 Mute]	A B
SW608	92LM-SW1658A	J	Switch,Leaf Type [Tape 2 Mute]	A B
SW701	92LSWiCHT1663T	J	Switch,Key Type [PLAY]	A C
SW702	92LSWiCHT1663T	J	Switch,Key Type [APSS,REWIND]	A C
SW703	92LSWiCHT1663T	J	Switch,Key Type [PAUSE]	A C
SW704	92LSWiCHT1663T	J	Switch,Key Type [VIDEO/AUX]	A C
SW705	92LSWiCHT1663T	J	Switch,Key Type [TUNER]	A C
SW706	92LSWiCHT1663T	J	Switch,Key Type [CD]	A C
SW707	92LSWiCHT1663T	J	Switch,Key Type [TUNING-DOWN]	A C
SW708	92LSWiCHT1663T	J	Switch,Key Type [TUNING-UP]	A C
SW709	92LSWiCHT1663T	J	Switch,Key Type [MEMORY]	A C
SW711	92LSWiCHT1663T	J	Switch,Key Type [STOP]	A C
SW712	92LSWiCHT1663T	J	Switch,Key Type [APSS,FAST FORWARD]	A C
SW713	92LSWiCHT1663T	J	Switch,Key Type [POWER]	A C
SW714	92LSWiCHT1663T	J	Switch,Key Type [PRESET-DOWN]	A C
SW715	92LSWiCHT1663T	J	Switch,Key Type [PRESET-UP]	A C
SW716	92LSWiCHT1663T	J	Switch,Key Type [BAND]	A C

.NO.	PART NO.	★	DESCRIPTION	CODE
.8	92LSWICHT1663T	J	Switch,Key Type [X-BASS]	A C
.9	92LSWICHT1663T	J	Switch,Key Type [TAPE]	A C
:0	92LSWICHT1663T	J	Switch,Key Type [OPEN/CLOSE]	A C
:0	92LSWICHP1746A	J	Switch,Push Type [DUBBING SPEED]	A F
1	QCNCM095BAFZZ	J	Test Point,2Pin	A B

DECK MECHANISM PARTS

	92LM-ANG1658A	J	Joint Angle,Mechanism	A C
	92LM-BANG1658A	J	Frame,Button	A C
	92LM-BELT1651B	J	FR Belt	A B
	92LM-BELT1658A	J	Drive Belt [Tape 1]	A B
	92LM-BELT1658B	J	Drive Belt [Tape 2]	A B
	92LMBJANG1658A	J	Joint Angle,Button	A A
	92LM-CSPR667J	J	Spring,Latch Plate	A A
	92LM-CSPR1651F	J	Spring,Back Tention	A A
	92LM-EH1658A	J	Head,Erase	A G
	92LM-ESPR1651A	J	Spring,Lock Plate	A A
	92LM-ESPR1651B	J	Spring,Holder Lock Lever	A A
	92LM-ESPR1658A	J	Spring,P-Kick Lever	A A
	92LM-FRRA1651A	J	FR Roller Ass'y	A F
	92LM-FWA1651A	J	Flywheel Ass'y [Tape 2]	A G
	92LM-FWA1658A	J	Flywheel Ass'y [Tape 1]	A G
	92LM-GEAR1651C	J	Gear,FF	A A
	92LM-HPLT1746A	J	Plate,Head	A C
	92LM-iCAM1651A	J	Cam,Idler	A B
	92LM-iLA1651A	J	Idler Lever Ass'y	A B
	92LM-LEV1651G	J	Lever,Main Lock	A B
	92LM-LEV1651i	J	Lever,AS Killer	A A
	92LM-LEV1651J	J	Lever,Pause Timming	A A
	92LM-LEV1651K	J	Lever,Eject Joint	A A
	92LM-LEV1651L	J	Lever,Erase Prevention	A B
	92LM-LEV1658A	J	Lever,Record	A B
	92LM-LEV1658B	J	Lever,Play	A A
	92LM-LEV1658C	J	Lever,Rewind	A A
	92LM-LEV1658D	J	Lever,FF	A B
	92LM-LEV1658E	J	Lever,Stop	A B
	92LM-LEV1658G	J	Lever,P-Kick	A B
	92LM-LEV1658H	J	Lever,Holder Lock	A B
	92LM-LEV1658i	J	Lever,P-Kick	A B
	92LM-LEV1658J	J	Guide,Tape 1	A B
	92LM-LGA1746A	J	Lever Guide Ass'y	A F
	92LM-MCA1654A	J	Main Chassis Ass'y [Tape 2]	A K
	92LM-PLT1431A	J	Plate,Latch	A A
	MSPRP0492AFFW	J	Spring,Cassette	A A
	92LM-PLA1658A	J	Pause Lever Ass'y	A C
	92LM-PRA1651A	J	Pinch Roller Ass'y	A E
	92LM-REL1651B	J	Supply Reel	A B
	92LM-RPH1746A	J	Head,Record/Playback	A M
	92LM-SFT1658A	J	Shaft,Button	A D
	92LM-TSPR1746A	J	Spring,Pinch Roller	A A
	92LM-TSPR1651B	J	Spring,Operate Lever	A A
	92LM-TSPR1651C	J	Spring,Record Lever	A A
	92LM-TSPR1651D	J	Spring,Idler Lever	A A
	92LM-TSPR1651E	J	Spring,Pause Killer	A A
	92LM-TSPR1651F	J	Spring,AS Killer Lever	A A
	92LM-TURA1651A	J	Take-up Reel Ass'y	A F
	92LM-TSPR1651G	J	Spring,Pause Stop Lever	A A
	PCUSZ0162AFZZ	J	Prevent Vibration Gom	A A
	92L1R5WC3R8R5P	J	Washer,ϕ1.5×ϕ3.8×0.5mm	A A
	92L1R2WC3R2R5P	J	Washer,ϕ1.2×ϕ3.2×0.5mm	A A
	92L1R8WC3R4R5P	J	Washer,ϕ1.8×ϕ3.4×0.5mm	A A
	92L2R3W6R5P	J	Washer,ϕ2.3×ϕ6×0.5mm	A A
	92L2R3WC5R5R5P	J	Washer,ϕ2.3×ϕ5.5×0.5mm	A A
	92L1R2WC4-R5P	J	Washer,ϕ1.2×ϕ4×0.5mm	A A
	92L3R6W6-R5P	J	Washer,ϕ3.6×ϕ6×0.5mm	A A
	92LS2R7W6R4R5L	J	Washer,ϕ2.7×ϕ6.4×0.5mm	A A

REF.NO.	PART NO.	★	DESCRIPTION	CODE
72	92LM-MCA1654A	J	Main Chassis Ass'y [Tape 1]	A K
501	92LS2R6S1746A	J	Motor Screw,ϕ2.6	A A
503	92LS2S1658B	J	Screw,ϕ2mm P-Kick Lever	A B
504	92L2BTS+5BZ	J	Screw,ϕ2×5mm	A A
505	92L2BTS+7BZ	J	Screw,ϕ2×7mm	A A
506	92L2TTS+3BZ	J	Screw,ϕ2×3mm	A A
508	92L2TTS+4BZ	J	Screw,ϕ2×4mm	A A
509	92L2TTS+4PZ	J	Screw,ϕ2×4mm	A A
510	92LS2S1658C	J	Screw,ϕ2	A A
511	92L2BTS+5PZ	J	Screw,ϕ2×5mm	A A
M601	92LMTR1746AASY	J	Motor With Pulley [Tape]	A P
SW605	QSW-F0340AFZZ	J	Switch,Leaf Type [Tape 1 Main]	A E
SW606	QSW-F0340AFZZ	J	Switch,Leaf Type [Tape 2 Main]	A E
SW607	92LM-SW1658A	J	Switch,Leaf Type [Tape 1 Mute]	A B
SW608	92LM-SW1658A	J	Switch,Leaf Type [Tape 2 Mute]	A B

CD MECHANISM PARTS

301	MSPRC0798AFZZ	J	Spring,Rack	A A
302	NGERH0381AFZZ	J	Gear,Middle	A C
303	NGERH0382AFZZ	J	Gear,Drive	A B
304	NGERR0036AFZZ	J	Gear,Rack,Fix	A B
305	NGERR0037AFZZ	J	Gear,Rack,Move	A B
306	NSFTM0237AFFW	J	Shaft,Guide	A C
308	PCUSG0427AFSC	J	Cushion	A C
⚠310	RCTRH8136AF00	J	Pickup Unit	B F
311	92LM-PLT1777A	J	Plate,Weight	A A
701	LX-HZ0217AFFD	J	Screw,ϕ2.6×8mm	A A
702	XBPSD20P03000	J	Screw,ϕ2×3mm	A A
703	XBPSD26P06J00	J	Screw,ϕ2.6×6mm	A A
704	XHBSD26P06000	J	Screw,ϕ2.6×6mm	A A
M701	92LMTR1651BASY	J	Motor with Gear [Slide]	A P
M702	92LMTR1746CASY	J	Motor with Chassis [Spin]	A T

CABINET PARTS

201	92LCAB1752AS1	J	Front Cabinet Ass'y	A X
201- 1	————		Front Cabinet (Not Replacement Item)	—
201- 2	92LKNōB1749A	J	Knob,CD/Tuner	A D
201- 3	92LKNōB1753C	J	Knob,Function	A C
201- 4	92LPANEL1753B	J	Panel,LCD	A H
201- 5	92LCUSN1746A	J	Cushion,Leg	A A
201- 6	MLiFP0030AFZZ	J	Damper	A E
201- 7	92LSUPT1587A	J	Damper Support	A A
201- 9	92L3BTS+10BZ	J	Screw,ϕ3×10mm	A A
201-10	92LKNōB1753A	J	Knob,Power	A C
201-11	92LKNōB1753B	J	Knob,X-BASS	A C
201-12	92LHōLD1753A	J	Holder,CD Guide	A D
•201-13	92LSHLD1753A	J	Shield Plate	A D
202	92LCSPR1596A	J	Cassette Spring	A A
203	92LMEC1753CTS1	J	Cassette Holder Ass'y [Tape 1]	A M
203- 1	————		Cassette Holder [Tape 1] (Not Replacement Item)	—
•203- 2	92LPANEL1753A	J	Decration Panel Cassette [Tape 1]	A F
204	92LMEC1753CTS2	J	Cassette Holder Ass'y [Tape 2]	A M
204- 1	————		Cassette Holder [Tape 2] (Not Replacement Item)	—
•204- 2	92LPANEL1753A	J	Decration Panel Cassette [Tape 2]	A F
205	92LKNōB1749C	J	Knob,Main Volume	A E
207	92LSUPT1753A	J	Bracket,CD Unit	A D

REF.NO.	PART NO.	★	DESCRIPTION	CODE
208	92LSUPT1753F	J	Bracket,Display PWB	A B
209	92LKNŌB1753F	J	Knob,Balance	A B
210	92LKNŌB1749D	J	Knob,Dubbing Speed	A E
211	92LM-BTN1749A	J	Button,Record [Tape 2]	A C
212	92LM-BTN1749B	J	Button,Play [Tape 2]	A C
213	92LM-BTN1749C	J	Button,Rewind [Tape 2]	A C
214	92LM-BTN1749D	J	Button,FF [Tape 2]	A C
215	92LM-BTN1749E	J	Button,Stop [Tape 2]	A C
216	92LM-BTN1749F	J	Button,Pause [Tape 2]	A C
217	92LM-BTN1749G	J	Button,Play [Tape 1]	A C
218	92LM-BTN1749H	J	Button,Rewind [Tape 1]	A C
219	92LM-BTN1749I	J	Button,FF [Tape 1]	A C
220	92LM-BTN1749J	J	Button,Stop [Tape 1]	A C
221	92LM-LEV1746A	J	Lever,Record	A B
222	92LM-SUPT1746A	J	Bracket,Deck PWB	A B
223	92LM-SUPT1749A	J	Bracket,Mechanism Button	A B
224	92LBELT1613A	J	Belt,Drive	A C
225	92LMAG1749AS1	J	Magnet Ass'y	A G
226	92LGEAR1613A	J	Gear,Pinion	A H
227	92LHŌLD1613A	J	Disc Holder	A K
228	92LLEV1613A	J	Lever,Shift	A F
229	92LN-BAND1318A	J	Nylon Band,80mm	A A
230	92LPULLY1613A	J	Pulley,Drive	A C
231	92LS-CHS1613B	J	Loading Chassis	A P
232	92LSCHS1753A	J	Main Chassis	A S
⚠233	LBSHC0103AFZZ	J	Bushing,AC Power Supply Cord	A B
⚠234	92LCŌRD-1318B	J	AC Power Supply Cord [Except For Saudi Arabia]	A M
⚠234	92LCŌRD-1393A	J	AC Power Supply Cord [For Saudi Arabia]	A M
235	92LRDAT1587A	J	Heat Sink	A C
236	92LCAB1753B	J	Top Cabinet	A Q
237	92LCAB1753C	J	Side Cabinet	A P
238	92LCŌV-1753A	J	Cover,CD Tray	A G
239	92LSUPT1746A	J	Bracket,Main PWB	A F
240	92LSUPT1753B	J	Bracket,CD Unit Side	A G
242	92LWPLATE1752A	J	Back Board [Except For TAIWAN]	A G
242	92LWPLATE1752B	J	Back Board [For TAIWAN]	A G
243	92LLABL1752B	J	Label,Warning [For TAIWAN Only]	A C
244	92LLABL1420A1	J	Label,CLASS 1	A C
245	92LILMT1753A	J	Plate,LCD Reflection	A D
246	92LILMT1753B	J	Filter,LCD	A D
247	92LRDAT1753A	J	Main Heat Sink	A Q
248	92LRDAT1753B	J	Sub Heat Sink	A H
249	92LSUPT1753E	J	Bracket,Heat Sink	A E
⚠251	92LFSHŌLD1652T	J	Holder,Fuse	A B
⚠252	QLUGP9062AFZZ	J	Lug,Terminal	A A
254	92LLUG-1751A	J	Lug with Wire	A C
256	92LSHEET1753A	J	Sheet,Back Board	A C
257	92LKNŌB1754A	J	Knob,Mic Level	A B
258	92LSPAC1715A	J	Spacer,LED	A B
261	92LSUPT1753D	J	Bracket,Mic PWB	A C
601	92L3BTS+10BZ	J	Screw,ϕ3×10mm	A A
602	92L3BTS+12BB	J	Screw,ϕ3×12mm	A A
603	92L3PTS+16BZ	J	Screw,ϕ3×16mm	A A
604	92L3BTS+12CZ	J	Screw,ϕ3×12mm	A A
605	92L2TTS+3BZ	J	Screw,ϕ2×3mm	A A
606	92LS2R6PTS10BZ	J	Screw,ϕ2.6×10mm	A A
607	92LS2R6S1613SW	J	Screw,ϕ2.6×5mm	A A
608	92LS3BTS1613WA	J	Screw,ϕ3×8mm	A B
609	92L4TTS+8BZ	J	Screw,ϕ4×8mm	A A
610	92L3BTS+12BZ	J	Screw,ϕ3×12mm	A A
611	92L3BTS+8BZ	J	Screw,ϕ3×8mm	A A
613	92L3BTS+12WZ	J	Screw,ϕ3×12mm	A A
614	92LS3BTS1613SW	J	Screw,ϕ3×8mm	A A
616	92L3BTS+10BB	J	Screw,ϕ3×10mm	A A
618	92L3BTS+14BZ	J	Screw,ϕ3×14mm	A A
619	92L4SPW	J	Washer,ϕ4mm	A A
620	92LS4TTS1753SW	J	Screw,ϕ4×8mm	A A
621	92L4R5W12-1S	J	Washer,ϕ4.5×12×1mm	A A

ACCESSORIES/PACKING PARTS

	QANTW0108AFZZ	J	FM Wire Antenna	A D
	92LBAG1460B	J	Polyethylene Bag, Accessories	A A
	92LBAG1663B	J	Polyethylene Bag,Unit	A B
	92LBAG760C	J	Polyethylene Bag, AC Plug Adaptor	A A
	92LINST1752A	J	Operation Manual	A N
	92LL-ANT1663A	J	AM Loop Antenna	A L
	92LPADD9S370	J	Packing Add.Speaker	A H
	92LPAD1753A	J	Packing Add.,Left/Right	A Q
	92LPCASE1752A	J	Packing Case	A N
	92LPLUG027	J	Adaptor,AC Plug [For Saudi Arabia]	A D
	92LPLUG155A	J	Adaptor,AC Plug [Except For Saudi Arabia]	A G
	92LPLYB9S370	J	Polyethylene Bag,Speaker	A B
	92LPPAD9S370	J	Packing Pad,Speaker	A H
	92LRMRM9S370	J	Mirror Mat,Speaker	A B
	92LRCŌNT1753A	J	Remote Control	A X
	92LLID1749A	J	Lid,Remote Control	A G

CP-S370X SPEAKER BOX PARTS

701	92LPFPL1K375Z	J	Front Panel	A R
702	92LPNFA1K375Z	J	Net Frame Ass'y	A P
702- 1	————		Net Frame (Not Replacement Item)	—
702- 2	92LBADGE1692A	J	Badge,SHARP	A C
703	92LWSPB2K375Z	J	Speaker Box Ass'y	A W
704	92LFSBL4S370	J	Sound Absorbing Material,Rear	A D
705	92LFSBS4S370	J	Sound Absorbing Material,Top	A D
706	92LCPDC8K375Z	J	Port Cushion	A F
707	92LPRTB8K375Z	J	Duct Pipe	A D
708	92LPRLB7S370X	J	Specifications Label	A B
709	92LECŌR3S370	J	Speaker Cord	A G
710	92L00602CPX9	J	Screw,ϕ4×12mm	A A
711	92L09260C500	J	Screw,ϕ3.5×10mm	A A
712	92L04010033	J	Screw,ϕ3×10mm	A B
713	92L04110001	J	Leg Cushion	A D
C1,2	92LECŌN3S350GY	J	Capacitor,1.5 μF,50V Electrolytic,Non-Polar	A C
SP1,2	92L12WBD38A	J	Woofer	A Z
SP3,4	92L50TBE46A	J	Tweeter	A S

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